

Portable CD/DVD Player

Operating Instructions



D-VM1

WARNING



To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only. Mains lead must only be changed at a qualified service shop.

CAUTION

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS

Notice for customers in the United Kingdom and Republic of Ireland

A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience. Should the fuse in the plug supplied need to be replaced, same rating fuse approved by ASTA or BSI to BS1362, (i.e., marked with  or  mark) must be used. If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.

For customers in Canada

CAUTION

TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

For customers in the U.S.A.

Owner's Record

The model and serial numbers are located inside the lid of the player. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

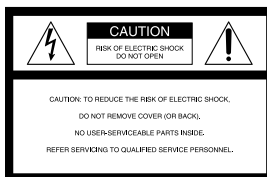
Model No. D-VM1
Serial No. _____

CAUTION

You are cautioned that any change or modifications not expressly approved in this manual could void your authority to operate this equipment.

CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this CD/DVD player is harmful to eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only. The following caution label is located on the bottom of the player.



This symbol is intended to alert the user to the presence of uninsulated

“dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important

operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide

reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

“WALKMAN” is a trademark of Sony Corporation.

Welcome!

Thank you for purchasing this Sony Portable CD/DVD Player. Before operating this player, please read this manual thoroughly and retain it for future reference.

Precautions

On safety

- Caution – The use of optical instruments with this product will increase eye hazard.
- This unit operates on 100 – 240 V AC, 50/60 Hz. Check that the unit's operating voltage is identical with your local power supply.
- To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.
- Should any solid object or liquid fall into the cabinet, unplug the player and have it checked by qualified personnel before operating it any further.
- Do not put any foreign objects in the DC IN 10 V (external power input) jack.
- To prevent fire, do not cover the ventilation of the apparatus with newspapers, tablecloths, curtains, etc. And don't place lighted candles on the apparatus.
- Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

On temperature increases

- Heat may build up inside the unit during charging or if it is being used for a long time. This is not a malfunction.
- If the surrounding temperature is very high, the protective function will turn off the player automatically. Leave the player in a cool location for about 30 minutes before using it again.

On handling the player

- Keep the lens on the player clean and do not touch it. If you do so, the lens may be damaged and the player will not operate properly.
- Do not put any heavy object on top of the player. The player and the disc may be damaged.
- Do not leave the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture,

rain, mechanical shock, on an unlevel surface, or in a car with its windows closed.

- If the player causes interference to radio or television reception, turn off the player or move it away from the radio or television.
- If the player is brought directly from a cold to a warm location, or is placed in a very damp place, moisture may condense on the lenses of the player. Should this occur, the player may not operate properly. In this case, remove the disc and leave the player for about half an hour until the moisture evaporates.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this player. Attempting to do so may damage the player. Do not use such discs.

On the rechargeable battery

- Charge the rechargeable battery before you start using it.
- Do not allow dust to come into contact with the battery terminals of the player and rechargeable battery.
- Do not short the terminals.
- Do not leave the battery in a place subject to direct sunlight, or in a car with its windows closed.
- Keep the battery dry.

■ To store the rechargeable battery

The rechargeable battery is consumed gradually as time elapses even if it is not used. In order to prevent the battery from deteriorating, store the rechargeable battery as follows:

- Remove the rechargeable battery from the player after use.
- Use up the battery completely on the player before storing it.
- Keep the rechargeable battery in a cool location to prevent it from deteriorating.
- Charge and use the rechargeable battery at least once in 6 months.

■ To dispose of the rechargeable battery

Certain countries may regulate disposal of the battery used to power this product. Please consult with your local authority.

On handling the LCD screen

- The LCD is manufactured using high-precision technology. You may, however, see tiny black points and/or bright points (red, blue, green) that continuously appear on the LCD. This is a normal result of the manufacturing process and does not indicate a malfunction.
- Do not scratch the LCD or exert pressure on it. This could cause a malfunction.
- Using the player in low temperature conditions may produce a residual image on the screen. This is not a malfunction. When the player returns to normal temperature, the screen returns to normal.

On charging the rechargeable battery

- Use only the rechargeable battery supplied with this player. Other rechargeable batteries supplied with other models cannot be used with this player.
- The rechargeable battery may become warm during charging, however this is normal and is not a malfunction.
- When the battery life of a fully charged rechargeable battery becomes about half the normal life, you may need to replace the battery with a new one.
- Disconnect the rechargeable battery from the player as soon as the battery has been charged. Leaving it connected may result in reduced battery performance.

On power sources

- Use only the supplied AC power adaptor. Do not use any other AC power adaptor. It may cause a malfunction.

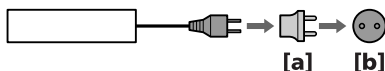
Polarity of the plug



- If the AC power adaptor causes interference to radio reception, move it away from the radio.
- Do not touch the AC power adaptor with wet hands.
- Connect the AC power adaptor to a wall outlet within your reach so that you can

disconnect the AC power adaptor as soon as something unusual occurs.

- For the customers in the U.S.A.:
Use a commercially available AC plug adaptor **[a]**, if necessary, depending on the design of the wall outlet **[b]**.



On headphones

- If the supplied headphones cause any skin trouble, immediately stop using them and consult a doctor.
- Sound will leak from the supplied headphones if you turn up the volume too high. Keep the volume at a moderate level so that you do not disturb other people around you and you can hear when you are being called. Keep this in mind especially in noisy places where one tends to turn up the volume.

On adjusting the volume

Do not turn up the volume while listening to a section with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level section is played.

Road safety

Do not use the monitor unit and headphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in some areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

Preventing hearing damage

Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce the volume or discontinue use.

Consideration for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

On cleaning

■Casing

Clean the cabinet, panel, and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine as it may mar the finish of the casing.

■LCD of the monitor unit

Wipe the LCD lightly with a soft cloth. Using the LCD cleaning kit (page 76, not supplied) is recommended.

■Plugs of the monitor unit and headphones

Clean the plugs of the monitor unit and headphones periodically so that you can always enjoy good picture and sound.

On cleaning discs

Do not use commercially available cleaning discs. This may cause a malfunction.

IMPORTANT NOTICE

Caution: This player is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Projection televisions are especially susceptible to this.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

For the customers in the U.S.A. and Canada

Replace the AC power adaptor with model AC-E1020 only, if replacement is necessary.

Replace the Car battery cord with model DCC-E8 only, if replacement is necessary.

RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable.

You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.



For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit <http://www.rbrc.org/>.

Caution:

Do not handle damaged or leaking lithium-ion batteries.

Never expose the battery pack to temperatures above 140 °F (60 °C) such as in a car parked in the sun or under direct sunlight.

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About this Manual

- Instructions in this manual describe the controls on the monitor unit and remote. You can also use the controls on the player if they have the same or similar names as those on the monitor unit and remote.
- The icons used in this manual are described below:

Icon	Meaning	Icon	Meaning
	Functions available in DVD video mode		Functions available in music CD mode
	Functions available in VIDEO CD mode		More convenient features

This Player Can Play the Following Discs

Disc format



DVD-R and DVD-RW recorded in Video mode
CD-R and CD-RW recorded in VIDEO CD mode or Music CD mode

The “DVD VIDEO” logo is a trademark.

■ When you view video on the monitor unit VIDEO CDs and DVDs in either the NTSC or PAL color system can be viewed on the LCD screen of the monitor unit.

■ When you connect the supplied AV output adaptor and view video on the TV monitor


- VIDEO CDs in either the NTSC or PAL color system can be viewed irrespective of the TV color system.
- DVDs in the same color system as the connected TV can be viewed, i.e. NTSC DVDs on an NTSC TV and PAL DVDs on a PAL TV.
- For Hong Kong, China and tourist models only:
Set the NTSC/PAL switch on the player to the appropriate TV color system.

Note

Some DVD-Rs, DVD-RWs, CD-Rs or CD-RWs cannot be played on this player depending upon the recording quality or physical condition of the disc, or the characteristics of the recording device. Furthermore, the disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device.

Region code

Your player has a region code printed on the bottom of the player and will only play DVDs labelled with identical region codes.

DVDs labeled  will also play on this player.

If you try to play any other DVD, the message “Playback prohibited by area limitations.” will appear on the TV screen. Depending on the DVD, no region code indication may be labeled even though playing the DVD is prohibited by area restrictions.

Terms for discs

Title

The longest sections of a picture or a music piece on a DVD; a movie, etc., for a picture piece on a video software; or an album, etc., for a music piece on an audio software. Each title is assigned a title number enabling you to locate the title you want.

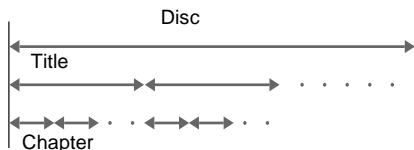
Chapter

Sections of a picture or a music piece that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want. Depending on the disc, no chapters may be recorded.

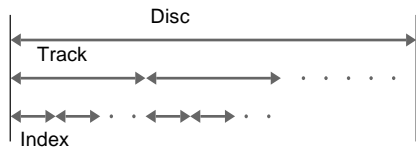
Track

Sections of a picture or a music piece on a VIDEO CD or a CD. Each track is assigned a track number enabling you to locate the track you want.

■ DVD structure



■ VIDEO CD or CD structure



Index (CD)/Video Index (VIDEO CD)

A number that divides a track into sections to easily locate the point you want on a VIDEO CD or a CD. Depending on the disc, no indexes may be recorded.

Scene

On a VIDEO CD with PBC functions, the menu screens, moving pictures and still pictures are divided into sections called “scenes.” Each scene is assigned a scene number enabling you to locate the scene you want.

Example of discs that the player cannot play

The player cannot play the following discs:

■ DVD

- DVD-ROM
- DVD-RAM
- DVD Audio discs
- DVD-RWs recorded in video recording format (VR mode)

■ CD

- CD-ROMs (PHOTO CDs included)
- All CD-Rs/RWs other than music format and VCD format CD-Rs/RWs
- Data part of CD-Extras
- CDs recorded in DTS*

* If you playback a CD recorded in DTS, excessive noise may be heard from headphones output or the AUDIO OUT jack.

■ Super Audio CD

- The player, however, can play CD layer in hybrid discs.

Also, the player cannot play the following discs:

- A DVD with a different region code (page 74).
- A disc that has a non-standard shape (e.g., card, heart).
- A disc with paper or stickers on it.
- A disc that has the adhesive of cellophane tape or a sticker still left on it.

Notes on playback operations of DVDs and VIDEO CDs

- Some playback operations of DVDs and VIDEO CDs may be intentionally set by software producers. Since this player plays DVDs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVDs or VIDEO CDs.
- CDs and VIDEO CDs may be heard louder than DVDs even at the same volume setting. This is due to the recorded volume level intended by the producers. Set the volume lower in advance.

Copyrights

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents, other intellectual property rights owned by Macrovision Corporation, and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only, unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Notes about the Discs

On handling discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.



On storing

- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.
- After playing, store the disc in its case.

On cleaning

- Fingerprints or dust on a disc may cause deteriorated image or sound quality. Leave the disc clean.
- Wipe the disc with a soft cloth from the center out.

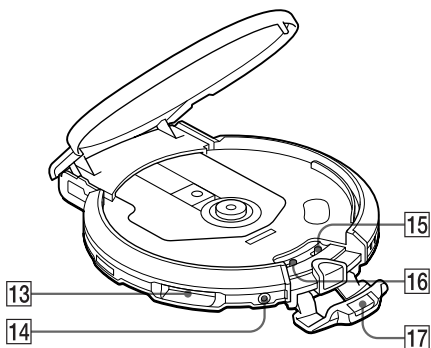
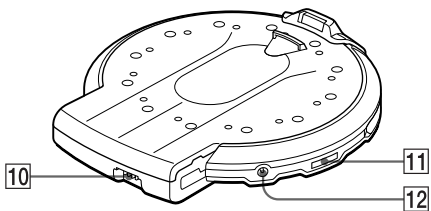
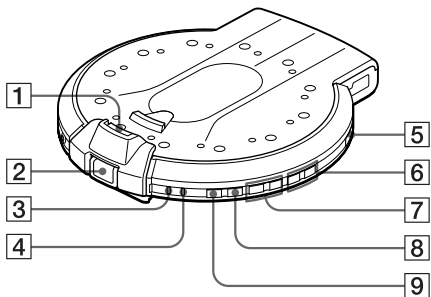


- If the disc is very dirty, first wipe it with a damp cloth, then wipe it again with a dry cloth.
- Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static spray intended for vinyl LPs.

Index to Parts and Controls

For more information, refer to the pages indicated in parentheses.

Player

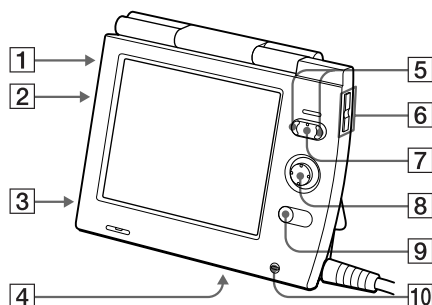


- 1** OPEN knob (21)
- 2** (remote sensor) (18)
- 3** CHG (charge) indicator (18)
- 4** POWER indicator (21)
- 5** HOLD switch (49)
- 6** VOL (volume) +/- buttons (22)
The VOL + button has a tactile dot.
- 7** (previous/next) buttons (24)
- 8** (play/pause) button (22, 24)
The button has a tactile dot.
- 9** /OFF (stop/power off) button (22)
- 10** Rechargeable battery terminal (18)
- 11** A/V OUT (audio/video output) jack (50)
- 12** DC IN 10V jack (18)
- 13** MONITOR jack (21)
- 14** (headphones) jack (21)
- 15** AVLS (Automatic Volume Limiter System) switch (48)
- 16** NTSC/PAL switch (8, 62)
Hong Kong, China and tourist models only
- 17** Buckle (21)

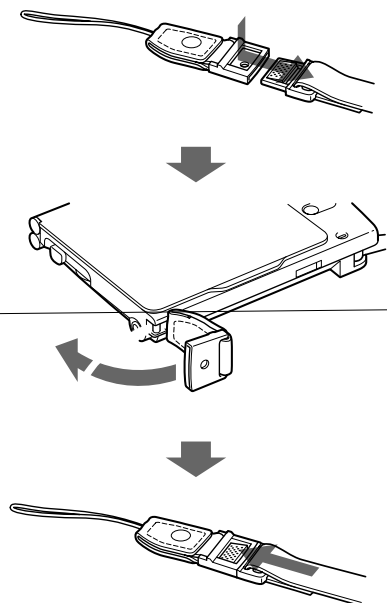
continued ➔

Monitor unit

The buttons on the monitor unit work differently when they are operated with the SHIFT button.










Attaching the strap for the monitor unit



- 1 SHIFT button (14) (26)
- 2 BRIGHT knob (21)
- 3 ⌂ (headphones) jack (21)
- 4 HOLD switch (49)
- 5 ◀◀/▶▶ (previous/next) buttons (24)
When operated with SHIFT:
Slow motion/One frame playback buttons (34)
- 6 VOL (volume) +/- buttons (22)
The VOL + button has a tactile dot.
When operated with SHIFT:
+: TIME/TEXT button (39)
-: CLEAR button (28)
- 7 ▶▶ (play/pause) button (22)
The ▶▶ button has a tactile dot.
When operated with SHIFT:
SOUND MODE button (43)
- 8 ◀/▶/▼/ENTER buttons (28)
When operated with SHIFT:
◀: ⌂ RETURN button (27)
▶: MENU button (26)
▼: DISPLAY button (28)
▶: TOP MENU button (26)
ENTER: TIMER button (48)
- 9 ■/OFF (stop/power off) button (22)
When operated with SHIFT:
Releases Resume Play or returns to PBC playback. (25) (27)
- 10 POWER indicator (21)

Remote

• •

- 1** SHUFFLE button (30)
- 2** AUDIO button (41)
- 3** PROGRAM button (28)
- 4** ANGLE button (46)
- 5** SUBTITLE button (47)
- 6** REPEAT button (31)
- 7**  PREV (previous) /NEXT buttons (24)
- 8**  / SCAN/SLOW buttons (34)
- 9**  PLAY button (21)
- 10** TOP MENU button (26)
- 11** DISPLAY button (28)
- 12** SOUND MODE button (43)
- 13** Number buttons
- 14** TIME/TEXT button (39)
- 15** CLEAR button (28)
- 16**  STOP/power off button (21)
- 17**  PAUSE button (24)
- 18** MENU button (26)
- 19** ENTER button (28)
- 20**  RETURN button (27)
- 21**  buttons (28)

Guide to On-Screen Displays (Status Bar and Control Menu)

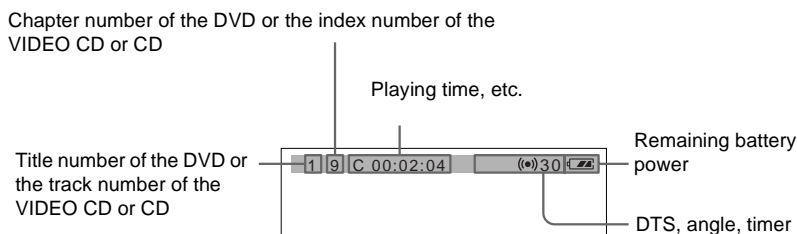
The following explains the 2 types of on-screen displays used with this player:
Status Bar and Control Menu.

To change the language for the on-screen display

You may change the language for the on-screen display to your desired one. See “Using the Setup Display” on page 63.

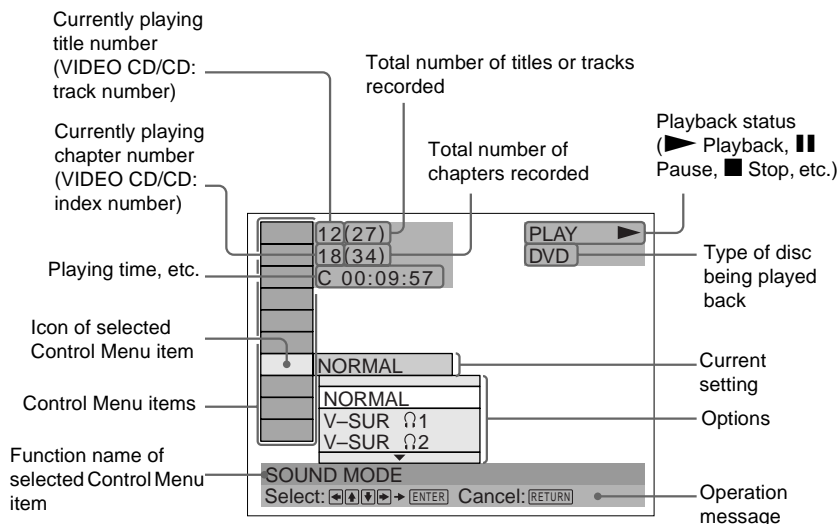
Status Bar

This display appears when you press the ▼ (DISPLAY) button once while pressing the SHIFT button.





















Control Menu

The Control Menu appears when you press the ▼ (DISPLAY) button repeatedly while pressing the SHIFT button.



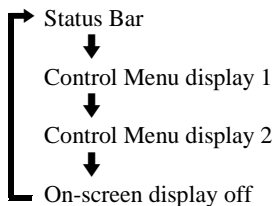
List of Control Menu Item

The numbers in parentheses indicate reference pages.

 TITLE/SCENE /TRACK (page 35)	Selects the title, scene, or track to be played.
 CHAPTER/INDEX (page 35)	Selects the chapter or index to be played.
 TRACK (page 35)	Selects the track to be played.
 INDEX (page 35)	Selects the index to be played.
 TIME/TEXT (page 35)	Checks the elapsed time and the remaining playback time. Input the time code for picture and music searching.
 AUDIO (page 41)	Changes the audio setting. During DVD playback, audio signal format is displayed.
 SUBTITLE (page 47)	Displays the subtitles. Changes the subtitle language.
 ANGLE (page 46)	Changes the angle.
 SOUND MODE (page 43)	Selects the sound effects (Virtual Surround, MEGABASS).
 REPEAT (page 31)	Plays the entire disc (all titles/all tracks), or one title/chapter/track repeatedly.
 A-B REPEAT (page 32)	Specifies the parts you want to play repeatedly.
 SETUP (page 63)	QUICK Setup (page 60) Use Quick Setup to choose the aspect ratio of the TV to be connected. CUSTOM Setup Use Custom Setup to choose the desired language for the on-screen display, set the digital output signal, the parental control, etc.
 PROGRAM (page 28)	Selects the title, chapter, or track to play in the order you want.
 SHUFFLE (page 30)	Plays the title, chapter, or track in a random order.
 ANGLE VIEWER (page 38)	Divides the angles into 9 sub-screens to help you find the angle you want quickly.
 TITLE VIEWER (page 37)	Divides the titles into 9 sub-screens to help you find the title you want quickly.
 CHAPTER VIEWER (page 37)	Divides the chapters into 9 sub-screens to help you find the chapter you want quickly.
 TRACK VIEWER (page 37)	Divides the tracks into 9 sub-screens to help you find the track you want quickly.



**To change the display**

Press ▼ (DISPLAY) while pressing SHIFT repeatedly.



Items differ depending on the disc.



The Control Menu icon indicator lights up in green when the function is activated.  → 
In case of “ANGLE” and “ANGLE VIEWER,” the Control Menu icon lights up in green when you can select an angle.

To return to the previous item

Press ◀ (◀ RETURN) while pressing SHIFT.

To execute

Press ENTER.

To turn off the Status Bar/Control Menu

Press ▼ (DISPLAY) while pressing SHIFT repeatedly.

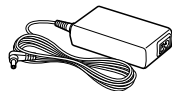
Quick Overview

A quick overview presented in this chapter will give you enough information to start using the player for your enjoyment. To enjoy the various features of this player, refer to “Playing Discs” on page 25. To use this player connected to a TV or speakers, refer to “Using with Other Components” on page 50.

Step 1: Unpacking

Check that you have the following items:

- AC power adaptor (1)
- AC power cord (mains lead) (1)
- Rechargeable battery LIP-30 (1)



- Headphones (1)
- Remote commander (remote) (1)
- Audio/video cord (miniplug x 2
↔ pinplug x 3) (1)

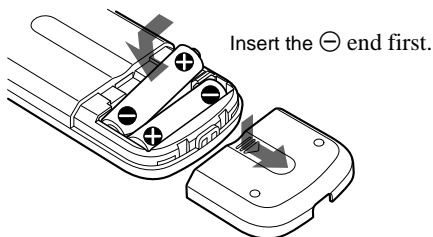
- Monitor unit (1)
- AV output adaptor (1)
The cable shape will be different
depending on the models.
- Stand (1)

- Carrying porch (1)
- Strap for the monitor unit (1)
- AC plug adaptor (1)
For the tourist models only

Car battery cord (1)
For the U.S.A. and Canadian models only
See page 79 on using the car
battery cord.

Inserting batteries into the remote

You can control the player using the supplied remote. Insert two size AA (R6) batteries (not supplied) by matching the \oplus and \ominus ends on the batteries to the markings inside the compartment. When using the remote, point it at the remote sensor on the player.

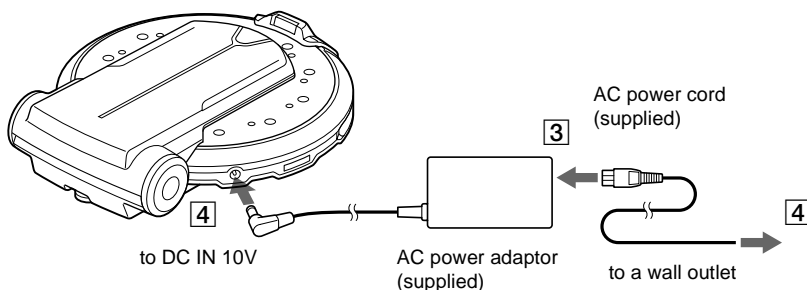


Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct light from the sun or lighting apparatus. Doing so may cause a malfunction.
- If you do not use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

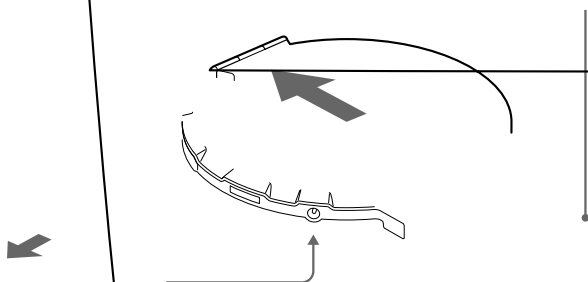
Step 2: Charging the Rechargeable Battery

Charge the supplied rechargeable battery.



- 1 Sandwich the player with the rechargeable battery and push the rechargeable battery against the player.**

Push the rechargeable battery until it stops. Make sure that the edges of the rechargeable battery do not go over the catches at the top and bottom of the player.



- 2 Fasten the screw.**

Hold the screw and turn it.

- 3 Connect the power cord to the AC power adaptor.**

- 4 Connect the AC power adaptor to the player, and plug the power cord into an AC outlet.**

Charging starts and the CHG indicator lights up. If you charge for about 2 hours, you can use the battery for about 2 hours. The CHG indicator goes out after about 6 hours when charging has completed.

- 5 Disconnect the AC power adaptor.**


Battery life

When the cover of the monitor unit is open	about 4 hours
When the cover of the monitor unit is closed	about 5 hours

Measured during DVD playback in “NORMAL” sound mode, BRIGHT knob at the minimum

Battery life may differ depending on the surrounding temperature or conditions under which the player is used.


When the battery power becomes low

The status bar automatically appears and  flashes. The power is automatically turned off after a few minutes.




When the battery is discharged completely, you will hear short beeps from the headphones and the POWER indicators on the player and monitor unit will flash in red.


To confirm the remaining battery power

You can check the battery power remaining on the status bar.

If  starts flashing, connect the player to an AC outlet and recharge the battery.

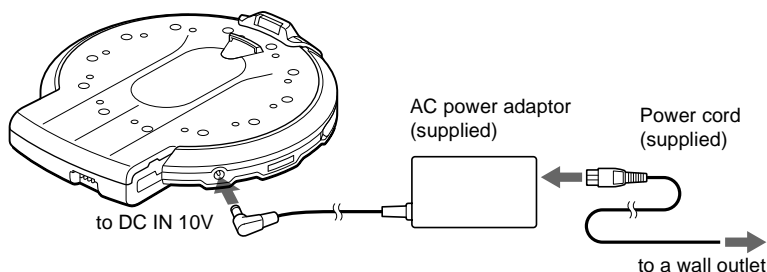
Notes

- If you press  (▶  on the remote) during charging, charging is suspended until you turn off the player.
- Do not touch the jacks on the player or those on the rechargeable battery. Doing so may cause a malfunction.
- The indicator sections of  roughly shows the remaining battery power. One section does not always indicate one-third of the battery power, however.

 If you do not intend to use the rechargeable battery for a long time, use up the battery completely and keep it in a cool location to prevent the battery from deteriorating. Charge and use the battery at least once in 6 months.



To use the player with the AC power adaptor

Remove the rechargeable battery when using the player with the AC power adaptor. Connect the power cord after all other connections are completed.

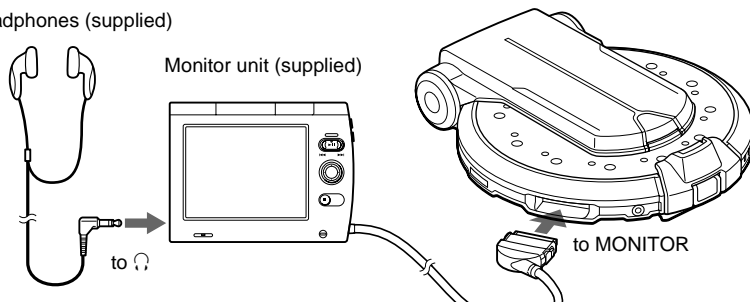


Step 3: Playing a Disc

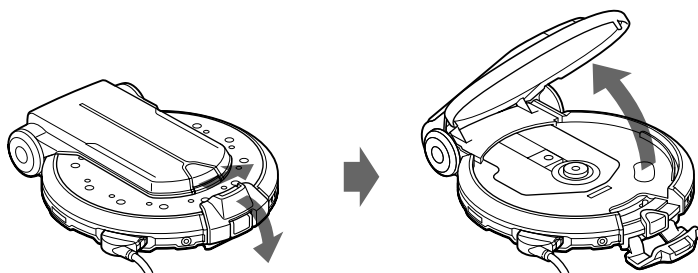
- 1** Make sure the power is turned off. Securely connect the monitor unit to the player, and the headphones to the monitor unit.

You can connect the supplied headphones to the  jack on the player. By connecting headphones to the  jacks on both the monitor unit and player, two people can listen together.

Headphones (supplied)

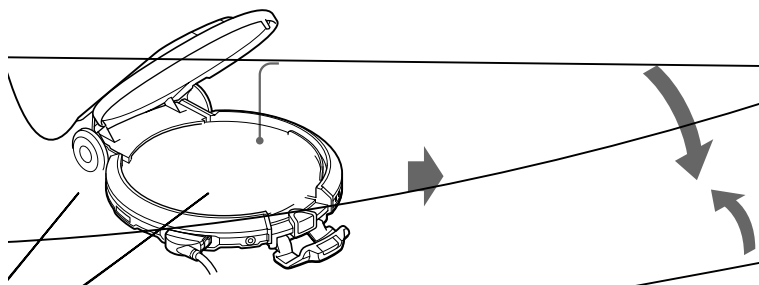


- 2** Slide OPEN to one side, and unhook the buckle to open the lid.



- 3** Place the disc on the tray with the playback side facing down, and close the lid.

Press the center of the disc until it clicks. Make sure there is no space between the disc and the disc tray.

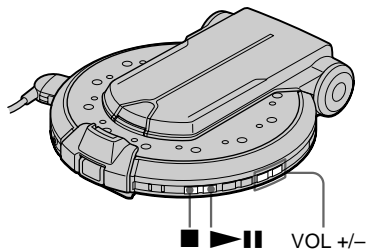
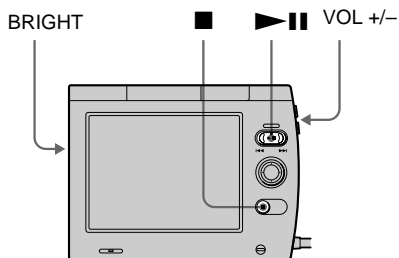


4 Press ►||.

The player begins playing the disc.

Adjust the brightness by turning BRIGHT.

Adjust the volume by pressing VOL + or –.



Depending on the disc

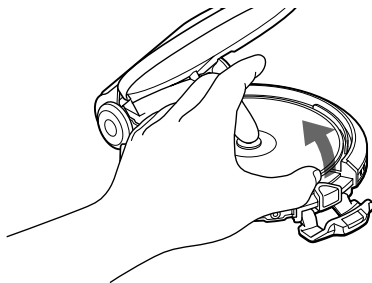
A menu may be displayed on the monitor unit screen. If so, select the item you want from the menu and play the DVD (page 26) or VIDEO CD disc (page 27).


To stop playing

Press ■.

To take out the disc

Remove the disc while pressing the pivot in the center of the tray.



 When you stop playback by pressing ■, the player's power remains on for about 3 minutes (the POWER indicator is lit in green). If you replace a disc and close the lid within this period, playback starts automatically.


To turn off the player

Press and hold ■ until the POWER indicator goes out.

Do not disconnect the rechargeable battery or the power cord before turning off the player. Doing so may cancel the menu settings. When you turn off the player, first press ■ to stop playback and then turn off the player.

Note

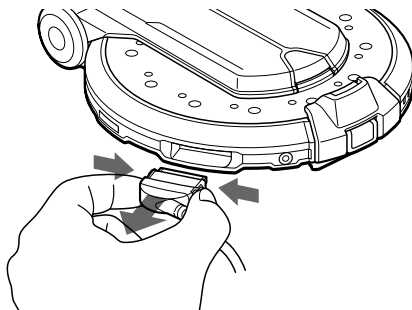
When using the player with the rechargeable battery, you cannot start playback using the remote if the player has been turned off. Press ►|| on the player or monitor unit to start playback.

 If you keep the player in stop mode for 3 minutes, the player is turned off automatically (Auto Power Off).

💡 If you keep the player in pause mode or display a still picture such as a menu for 15 minutes, when the POWER indicator is flashing in green, the player is turned off automatically (Auto Power Off).

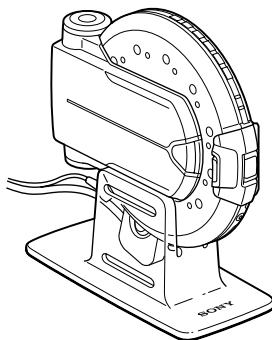
To disconnect the monitor unit

Pull the plug while holding the knobs on both sides of the plug.



To use the stand

You may place the player on the supplied stand. Place the player facing as shown below so that the player stands stably.

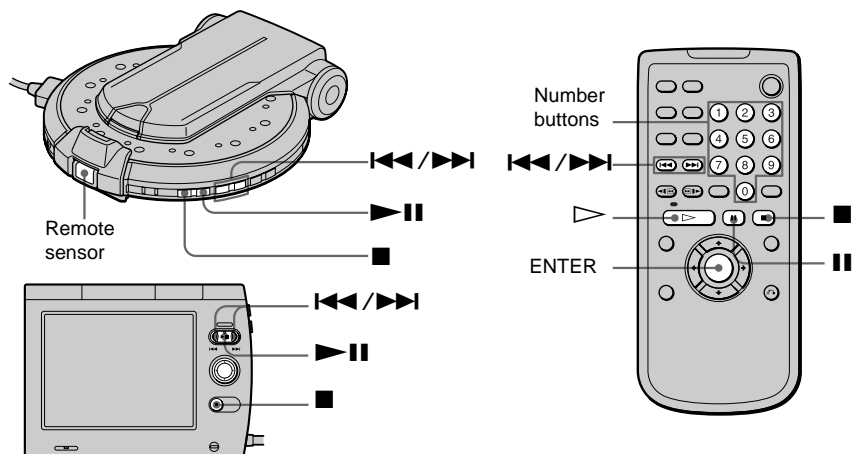


Note

Make sure that the player is placed in a stable location to prevent it from falling or toppling over.

continued ➡

Additional operations



To	Operations			Power indicator
	Player	Monitor unit	Remote	
Stop	Press ■	Press ■	Press ■	Lit (goes out after 3 minutes)
Pause	Press ►	Press ►	Press	Flash
Resume play after pause	Press ►	Press ►	Press ▷	Lit
Go to the next chapter, track, or scene in continuous play mode	Press ►► lightly*	Press ►► lightly*	Press ►►	Lit
Go back to the preceding chapter, track, or scene in continuous play mode	Press ◀◀ lightly*	Press ◀◀ lightly*	Press ◀◀	Lit

* If you press and hold the button, you can play in fast forward or fast reverse during pressing the button.

To use the number buttons on the remote

You can directly select a chapter on a DVD or a track on a CD using the number buttons. Press the number buttons, then press ENTER.

If you do not operate for 15 minutes when playing a CD

The screen saver appears. If you operate, the screen saver will disappear.

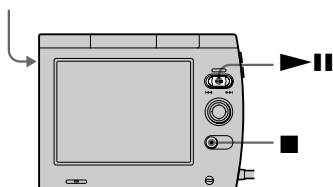
Playing Discs

Resuming Playback from the Point Where You Stopped the Disc (Resume

Play) DVD VIDEO CD

When you stop the disc, the player remembers the point where you pressed ■. As long as you do not remove the disc, Resume Play works even if the player is turned off.

SHIFT



1 While playing a disc, press ■ to stop playback.

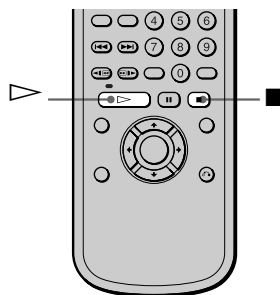
“Disc will restart from current point.” appears on the screen and you can restart the disc from the point where you stopped the disc.

If this message does not appear, Resume Play is not available.

2 Press ►||.

The player starts playback from the point where you stopped the disc in Step 1.

Using the remote



1 Press ■.

2 Press ►||.

💡 To play from the beginning of the disc, while pressing SHIFT, press ■ when the player is stopped. You can play from the beginning also by opening the buckle and fasten again.

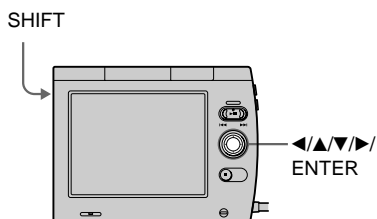
Notes

- Depending on where you stopped the disc, the player may not resume playback from exactly the same point.
- The point where you stopped playing may be cleared when:
 - you disconnect the rechargeable battery or power cord.
 - you change the play mode.
 - you change the settings on the Setup Display.
 - you disconnect the AV output adaptor and connect it again.

Using the DVD's Menu

A DVD is divided into long sections of a picture or a music feature called "titles." When you play a DVD which contains several titles, you can select the title you want using the TOP MENU button.

When you play DVDs that allow you to select items such as the language for the subtitles and the language for the sound, select these items using the MENU button.



1 While pressing SHIFT, press ► (TOP MENU) or ▲ (MENU).

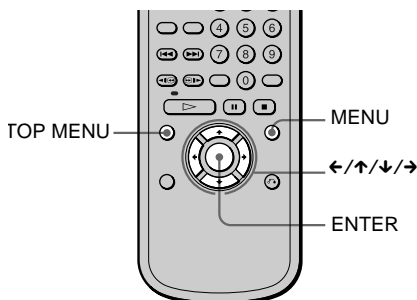
The disc's menu appears on the TV screen.

The contents of the menu vary from disc to disc.

2 Press ◀/▲/▼/▶ to select the item you want to play or change.

3 Press ENTER.


Using the remote



1 Press TOP MENU or MENU.

2 Press ◀/▲/▼/▶ to select the item you want to play or change.

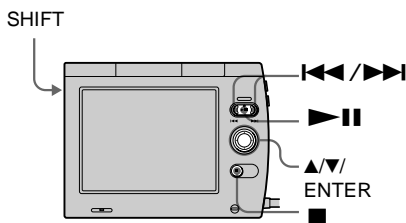
3 Press ENTER.

 Depending on the disc, the menu may be displayed automatically.

Playing VIDEO CDs with PBC Functions (PBC Playback)

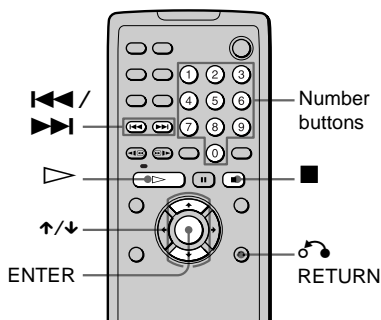


With PBC (Playback Control) functions, you can enjoy simple interactive operations, search functions, and other operations. PBC playback allows you to play VIDEO CDs interactively by following the menu on the TV screen.



- 1** Start playing a VIDEO CD with PBC functions.
The menu for your selection appears.
- 2** Select the item number you want by pressing **▲/▼**.
- 3** Press **ENTER**.
- 4** Follow the instructions in the menu for interactive operations.
Refer to the instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

Using the remote



- 1** Start playing a VIDEO CD with PBC functions.
- 2** Press **▲/▼** or the number buttons to select the item number you want.
- 3** Press **ENTER**.
- 4** Follow the instructions in the menu for interactive operations.

To go back to the menu

Press **◀** while pressing **SHIFT**.
On the remote, press **RETURN**.

To play with PBC turned off

Press **◀/▶** while the player is stopped to select a track, then press **▶** (**▶**) or **ENTER**.

“Play without PBC.” appears on the TV screen and the player starts continuous play. You cannot play still pictures such as a menu.

💡 To return to PBC playback, while pressing **SHIFT**, press **■** when the player is stopped. You can return to PBC playback also by opening the buckle and fasten again.

Notes

- Depending on the VIDEO CD, “Press ENTER” in Step 3 may appear as “Press SELECT” in the instructions supplied with the disc. Press **ENTER** also in this case.
- The PBC functions of Super VCDs do not work with this player. Super VCDs are played in continuous play mode only.
- The OGT (Overlay Graphics and TEXT) function of Super VCD does not work with this player.

Various Play Mode Functions (Program Play, Shuffle Play, Repeat Play, A-B Repeat Play)



You can set the following play modes:

- Program Play (page 28)
- Shuffle Play (page 30)
- Repeat Play (page 31)
- A-B Repeat Play (page 32)

If you have set a play mode, the play mode is displayed when you turn on the player.

Notes

- The play mode is canceled when you unhook the buckle, or disconnect the power source (rechargeable battery or AC power adaptor).
- To set Program Play, Shuffle Play and Repeat Play on VIDEO CDs with PBC functions, deactivate the PBC functions (page 27).

Creating your own program (Program Play)

You can play the contents of the discs in the order you want by arranging the order of the titles, chapters, or tracks to create your own program. You can program up to 99 titles, chapters, and tracks.



-
- 1** When the player is stopped, while pressing SHIFT, press ▼ 3 times for a DVD or twice for a CD or VIDEO CD. The Control Menu is displayed.

-
- 2** Press ▲/▼ to select (PROGRAM), then press ENTER. The options for “PROGRAM” appear.

-
- 3** Press ▲/▼ to select “SET→,” then press ENTER. The display for programming appears.

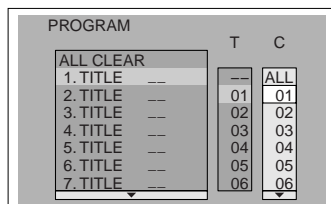
-
- 4** Press ►.
Now you can select a title on the DVD, or a track on the CD.

- 5 Select the title, chapter, or track you want to program.

■ When playing a DVD

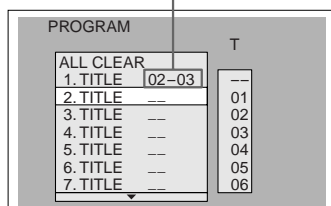
For example, select chapter "03" of title "02."

Press ▲/▼ to select "02" under "T," then press ENTER.



Next, press ▲/▼ to select "03" under "C," then press ENTER.

Selected title and chapter

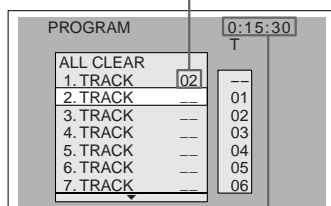


■ When playing a VIDEO CD or CD

For example, select track "02."

Press ▲/▼ to select "02" under "T," then press ENTER.

Selected track



Total time of the programmed tracks

- 6 To program other titles, chapters, or tracks, repeat Steps 4 to 5.

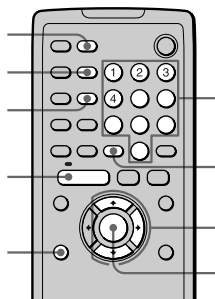
The programed titles, chapters, and tracks are displayed in the selected order.

- 7 Press ►|| to start Program Play.

Program Play begins.

When the program ends, you can restart the same program again by pressing ►||.

Using the remote



- 1 Press PROGRAM when the player is in stop mode.

- 2 Operate in the same way as Steps 4 to 6 in case of the monitor unit.

Use ▲/▼/► instead of ▲/▼/►. You can use the number buttons to select the titles, chapters or tracks.

- 3 Press ►.

💡 You can also display the Control Menu by pressing DISPLAY.

To return to normal play

While pressing SHIFT, press VOL – (CLEAR), or select "OFF" in Step 3.


To play the same program again, select "ON" in Step 3 and press ►|| (► on the remote).

To change or cancel a program

- 1 Follow Steps 1 through 3 of “Creating your own program (Program Play).”
- 2 Select the program number of the title, chapter, or track you want to change or cancel using ▲/▼, then press ►.
- 3 Follow Step 5 for new programming. To cancel a program, select “--” under “T,” then press ENTER.

To cancel all the titles, chapters, or tracks in the programed order

- 1 Follow Steps 1 through 3 of “Creating your own program (Program Play).”
- 2 Press ▲ and select “ALL CLEAR.”
- 3 Then press ENTER.

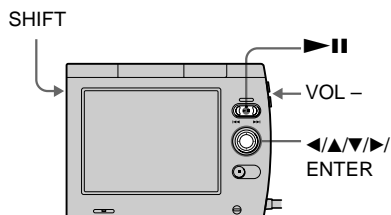
 You can do Repeat Play or Shuffle Play of the programed titles, chapters, or tracks by activating “REPEAT” or “SHUFFLE.” On the remote, press REPEAT or SHUFFLE.

Notes


- When playing Super VCDs, the total time of the programed tracks does not appear on the screen.
- The numbers of titles, chapters, or tracks displayed are the same number of titles, chapters, or tracks recorded on a disc.

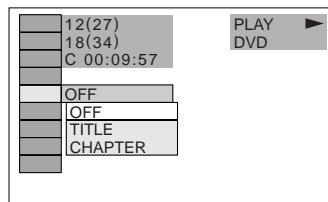
Playing in random order (Shuffle Play)

You can have the player “shuffle” titles, chapters, or tracks and play them in a random order. Subsequent “shuffling” may produce a different playing order.



- 1 While pressing SHIFT, press ▼ 3 times for DVD or twice for VIDEO CD/CD during playback.
The Control Menu is displayed.

- 2 Press ▲/▼ to select  (SHUFFLE), then press ENTER.
The options for “SHUFFLE” appear.



- 3 Press ▲/▼ to select the item.
 - When playing a DVD
 - TITLE: Shuffles titles and plays them in random order.
 - CHAPTER: Shuffles chapters and plays them in random order.
 - When playing a VIDEO CD or CD
 - TRACK: Shuffles tracks and plays them in random order.
 - During Program Play
 - ON: Shuffles titles, chapters or tracks selected in Program Play and plays them in random order.

- 4 Press ENTER during playback.

If the player is stopped, press ENTER followed by ►||.

- 5 While pressing SHIFT, press ▼ to turn off the Control Menu.

Using the remote

SHUFFLE



CLEAR

Press SHUFFLE repeatedly to select the item. If the player is stopped, press ► to start Shuffle Play.

You can also display the Control Menu by pressing DISPLAY. Use ▲/▼ instead of ▲/▼.

To return to normal play

While pressing SHIFT, press VOL – (CLEAR on the remote), or select “OFF” in Step 3.

Note

Up to 200 chapters in a disc can be played in random order when “CHAPTER” is selected.

Playing repeatedly (Repeat Play)

You can play all of the titles or tracks on a disc or a single title, chapter, or track repeatedly.

You can use a combination of Shuffle or Program Play modes.

3 Press ▲/▼ to select the item.

■ When playing a DVD

- DISC: Repeats all of the titles.
- TITLE: Repeats the current title on a disc.
- CHAPTER: Repeats the current chapter.

■ When playing a VIDEO CD or CD

- DISC: Repeats all of the tracks on a disc.
- TRACK: Repeats the current track.

■ During Program Play or Shuffle Play

- ON: Repeats Program Play or Shuffle Play.

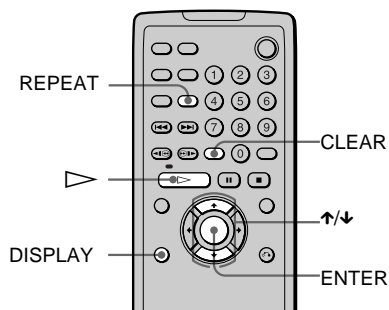
4 Press ENTER during playback.

If the player is stopped, press ENTER followed by ►||.

5 While pressing SHIFT, press ▼ (twice for a DVD) to turn off the Control Menu.

1 While pressing SHIFT, press ▼ twice. The Control Menu is displayed.

Using the remote



Press REPEAT repeatedly to select the item. If the player is stopped, press ▷ to start Repeat Play.

💡 You can also display the Control Menu by pressing DISPLAY. Use ↑/↓ instead of ▲/▼.

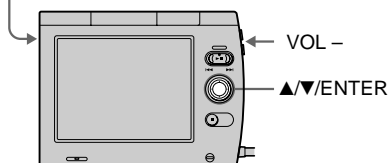
To return to normal play

While pressing SHIFT, press VOL – (CLEAR on the remote), or select “OFF” in Step 3.

Repeating a specific portion (A-B Repeat Play)

You can play a specific portion of a title, chapter, or track repeatedly. (This function is useful when you want to memorize lyrics, etc.)

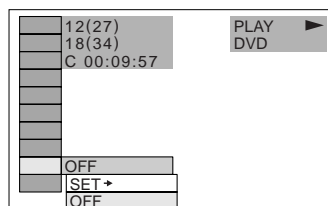
SHIFT



- 1 While pressing SHIFT, press ▼ twice during playback.

The Control Menu is displayed.

- 2 Press ▲/▼ to select **A-B** (A-B REPEAT), then press ENTER. The options for “A-B REPEAT” appear.



- 3 Press ▲/▼ to select “SET→,” then press ENTER.

The “A-B REPEAT” setting display appears.

A-B REPEAT
Set point A with **ENTER**.

- 4 Find the starting point (point A) of the portion to be played repeatedly, then press ENTER.

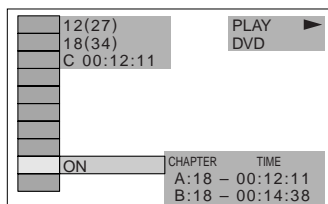
The starting point (point A) is set.

A-B REPEAT
Set point B with **ENTER**.

CHAPTER TIME
A:18 – 00:12:11

- 5 Find the ending point (point B), then press ENTER.

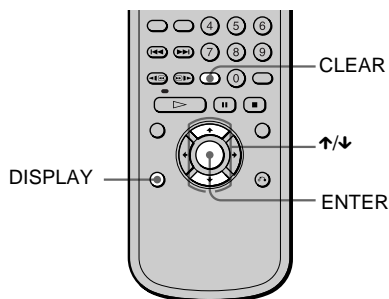
The set points are displayed and the player starts repeating this specific portion.



Slow-motion play or One-frame play (monitor unit only) (page 34) is convenient when you find points A and B.

-
- 6** While pressing **SHIFT**, press **▼** (twice for a DVD) to turn off the Control Menu.
-

Using the remote



Press **DISPLAY** to display the Control Menu. Use **↑/↓** instead of **▲/▼**.
 To turn off the Control Menu, press **DISPLAY** (twice for a DVD).

To return to normal play

While pressing **SHIFT**, press **VOL -** (**CLEAR** on the remote), or select “OFF” in Step 3.

Notes

- You can set A-B Repeat Play for only one specific section.
- When you set A-B Repeat Play, the settings for Shuffle Play, Repeat Play, and Program Play are canceled.
- Depending on the Super VCD, A-B Repeat Play function may not work correctly.






Searching for a Scene

Searching for a Particular Point on a Disc (Scan, Slow-motion Play)

You can locate a particular point on a disc quickly by monitoring the picture or playing back slowly.

Note

Depend
able

Press  or  while playing a disc. When you find the point you want, press  to return to the normal speed. Each time you press  or  during scan, the playback speed changes. Three speeds are available. With each press the indication changes as follows:

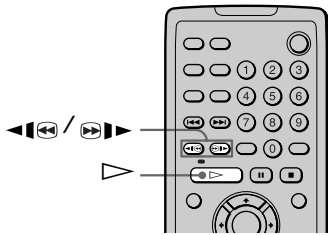
Playback direction

x2▶ (DVD/CD only) → 1▶▶ → 2▶▶▶

Opposite direction

The slow-motion speed does not change.

Using the remote



Press ◀◀ or ▶▶ when the player is in pause mode. To return to the normal speed, press ▶.

Each time you press ◀◀ or ▶▶ during Slow-motion Play, the playback speed changes. Two speeds are available. With each press the indication changes as follows:

Playback direction

2▶ ↔ 1▶

Opposite direction (DVD only)

2◀ ↔ 1◀

The “2▶”/“2◀” playback speed is slower than “1▶”/“1◀.”

Playing one frame at a time

DVD VIDEO CD

This function is available only with the monitor unit.

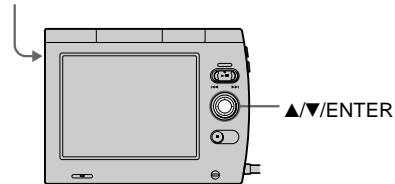
While pressing SHIFT, press ▶▶ to go to the next frame, or ◀◀ to go to the preceding frame (DVD only).

Searching for a Title or Chapter DVD VIDEO CD

You can search a DVD disc by title or chapter, and you can search a VIDEO CD or CD by track, index, or scene.

As title and tracks are assigned unique numbers on the disc, you can select the desired one by entering its number.

SHIFT



Searching for a Scene

1 While pressing SHIFT, press ▼ twice.

The Control Menu is displayed.

2 Press ▲/▼ to select the search method.

■ When playing a DVD

◀ (TITLE) or ▶ (CHAPTER)

■ When playing a VIDEO CD

◀ (TRACK) or ▶ (INDEX)


■ When playing a VIDEO CD with PBC Playback

◀ (SCENE)

■ When playing a CD

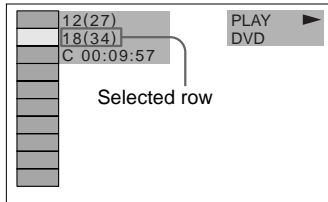
◀ (TRACK) or ▶ (INDEX)

continued →

Example: when you select  (CHAPTER)

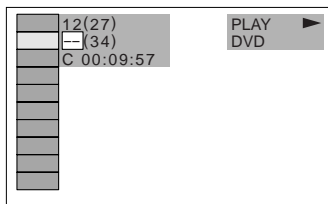
“** (**)” is selected (** refers to a number).

The number in parentheses indicates the total number of titles, chapters, tracks, or scenes.



3 Press ENTER.

“** (**)” changes to “-- (**).”



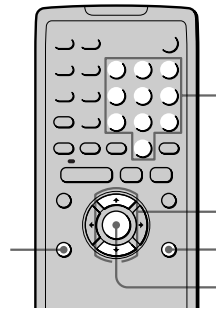
4 Press ▲/▼ to select the title, chapter, track, index, or scene number you want to search.

5 Press ENTER.


The player starts playback from the selected number.

6 While pressing SHIFT, press ▼ (twice for a DVD) to turn off the Control Menu.

Using the remote



Press DISPLAY to display the Control Menu. Use ▲/▼ instead of ▲/▼. You can select titles, tracks and scenes also using the number buttons. To turn off the Control Menu, press DISPLAY (twice for a DVD).

 You can display the first scene of titles, chapters, or tracks recorded on the disc on a screen divided into 9 scenes. You can start playback directly by selecting one of the scenes. For details, see “Searching by Scene (VIEWER)” on page 37.

Note

The title, chapter or track number displayed is the same number recorded on the disc.

Searching for a scene using the time code (Time search) (DVD only)

This function is available only with the remote. You can search the first scene by inputting the time code, which is the playing time of the title.

1 In Step 2, select (TIME/TEXT), then press ENTER.

“T ****:***” changes to “T --:--:--.”

2 Input the time code using the number buttons, then press ENTER.

For example, to find the scene at 2 hours, 10 minutes, and 20 seconds after the beginning, just enter “21020.”

The player starts playing the selected scene.

Searching by Scene (VIEWER)



You can divide the screen into 9 sub-screens and find the desired scene quickly.

Notes

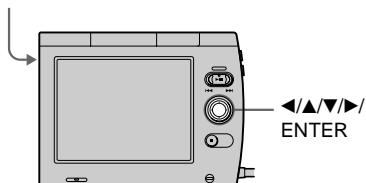
- Depending on the disc, you may not be able to select all functions.
- The sound is muted when using this function.

Scanning the title, chapter, or track



You can divide the screen into 9 sub-screens and display the first scene of titles, chapters, or tracks. You can also play back from the selected title, chapter, or track.

SHIFT



1 While pressing SHIFT, press ▼ 3 times.
The Control Menu is displayed.

2 Press ▲/▼ to select the item.

■ When playing a DVD

(TITLE VIEWER)

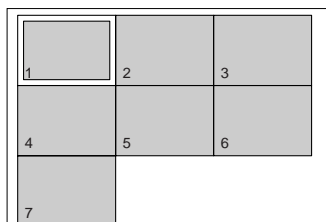
(CHAPTER VIEWER)

■ When playing a VIDEO CD

(TRACK VIEWER)

3 Press ENTER.

The initial scenes of titles or chapters appear.



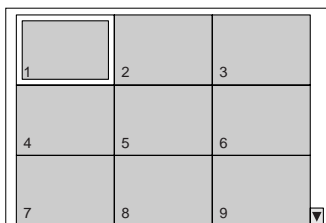
To start playback from the selected scene

Select the scene using ◀/▲/▼/▶, then press ENTER. The playback starts from the selected scene.

💡 If there are more than 9 titles, chapters, or tracks, ▼ is displayed at the bottom right.

To display the additional titles, chapters, or tracks, select the bottom right scene (position 9) and press ▼.

To return to the previous scene, select the top left scene (position 1) and press ▲.



Using the remote

Press DISPLAY to display the Control Menu. Use **←/↑/↓/→** instead of **◀/▲/▼/▶**.

Displaying different angles simultaneously

If various angles (multi-angles) for a scene are recorded on the DVD, you can display all of the angles recorded on the disc on the same screen, and start playback in continuous mode at the chosen angle. The angles are displayed on a screen divided into 9 sections.

-
- 1** While pressing SHIFT, press ▼ 3 times during playback.
The Control Menu is displayed.

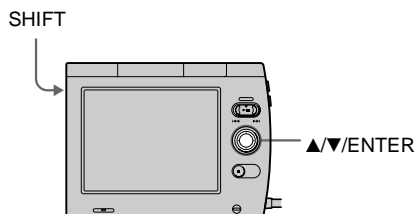
-
- 2** Press ▲/▼ to select (ANGLE VIEWER), then press ENTER.
The scenes in recorded angles appear.
-

Dividing a Scene into 9 Sections (STROBE PLAYBACK) DVD VIDEO CD

You can display 9 consecutive moving pictures on the screen. When you press **▶II**, the moving pictures pause.

Note

The sound is muted during strobe playback.



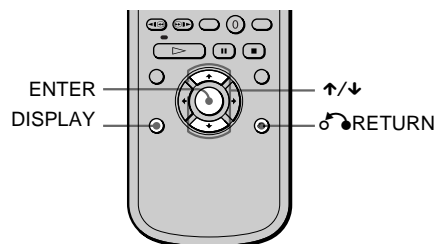
1 While pressing **SHIFT**, press **▼** 3 times during playback.

The Control Menu is displayed.

2 Press **▲/▼** to select the (STROBE PLAYBACK), then press **ENTER**.

Nine consecutive pictures appear.

Using the remote

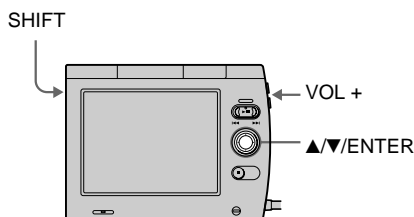


Press **DISPLAY** to display the Control Menu. Use **▲/▼** instead of **▲/▼**.

Checking the Playing Time and Remaining Time

DVD VIDEO CD CD

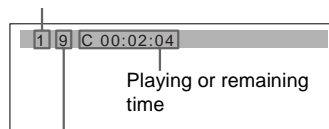
You can check the playing time and remaining time of the current title, chapter, or track, and the playing time or remaining time of the disc. Also, you can check the DVD/CD text recorded on the disc.



1 While pressing **SHIFT**, press **▼** during playback.

The Status Bar is displayed.

Title or track number



Chapter or index number

2 While pressing **SHIFT**, press **VOL +** repeatedly to change the time information.

The display and the kinds of time that you can change depend on the disc or scene you are playing.

■ When playing a DVD

- C *****
Playing time of the current chapter
- C-*****
Remaining time of the current chapter

continued →

- T **:***:***
Playing time of the current title
- T-***:***:***
Remaining time of the current title

■ When playing a VIDEO CD (with PBC functions)

- **:***:***
Playing time of the current scene

■ When playing a VIDEO CD (without PBC functions) or CD


- T **:***:***
Playing time of the current track
- T-***:***:***
Remaining time of the current track
- D **:***:***
Playing time of the current disc
- D-***:***:***
Remaining time of the current disc

■ When playing a Super VCD

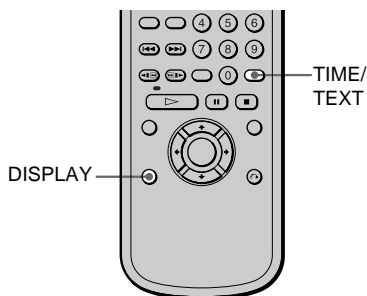
The remaining time cannot be displayed.

- T **:***:***
Playing time of the current track

3 While pressing SHIFT, press ▼ (twice for a DVD) to turn off the Status Bar.

 You can display and change the time information directly. While pressing SHIFT, press VOL + repeatedly. The display is turned off automatically.

Using the remote



Press DISPLAY to display the Status Bar or Control Menu, and press TIME/TEXT to change the time information.


You can change the time information also by pressing TIME/TEXT repeatedly during playback.

Checking the DVD/CD text

While pressing SHIFT, press VOL + (TIME/TEXT on the remote) repeatedly in Step 2 to display the text recorded on the DVD/CD. If there is no text recorded, “NO TEXT” appears.



The DVD/CD text

 If the DVD/CD text does not fit on a single line, you can see the first part only.

Notes

- Only letters of the alphabet can be displayed.
- This player can only display the first level of DVD/CD text, such as the disc's name or title.

Changing the Sound



If the DVD is recorded with multilingual tracks, you can select the language you want while playing the DVD.

If the DVD is recorded in multiple audio formats (PCM, Dolby Digital, MPEG audio or DTS), you can select the audio format you want while playing the DVD.

With stereo CDs or VIDEO CDs, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left headphones. (In this case, the sound loses its stereo effect.) For example, when playing a disc containing a song with the vocals on the right channel and the instruments on the left channel, you can select the left channel and hear the instruments from both headphones.

1 While the disc is playing, press **▲/▼** to select the desired audio signal.

2 Press **▲/▼** to select the desired audio signal. (AUDIO), then press **ENTER**. The options for "AUDIO" appear.

3 Press **▲/▼** to select the desired audio signal.

■ When playing a DVD

Depending on the disc, the choice of language varies.

When 4 digits are displayed, they represent the language code. Refer to the language code list on page 77 to see which language the code represents.

■ When playing a VIDEO CD or CD

The default setting is underlined.

- STEREO: The standard stereo sound
- 1/L: The sound of the left channel (monaural)
- 2/R: The sound of the right channel (monaural)

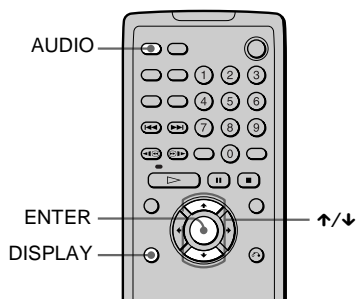
■ When playing a Super VCD

The default setting is underlined.

- 1:STEREO: The stereo sound of the audio track 1
- 1:1/L: The sound of the left channel of the audio track 1 (monaural)
- 1:2/R: The sound of the right channel of the audio track 1 (monaural)
- 2:STEREO: The stereo sound of the audio track 2
- 2:1/L: The sound of the left channel of the audio track 2 (monaural)
- 2:2/R: The sound of the right channel of the audio track 2 (monaural)

4 Press **ENTER**.

Using the remote



Press **AUDIO** repeatedly to select the desired audio signal.

You can also display the Control Menu by pressing **DISPLAY**. Use instead of .

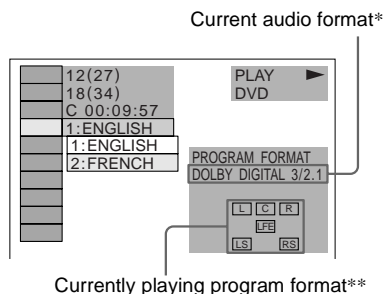
Notes

- While playing a Super VCD on which the audio track 2 is not recorded, no sound will come out when you select “2:STEREO,” “2:1/L” or “2:2/R.”
- For discs not in multiple audio format, you cannot change the sound.
- While playing a DVD, the sound may change automatically.
- Depending on the DVD, you may be able to change the sound only on the disc’s menu.

Checking the audio signal format

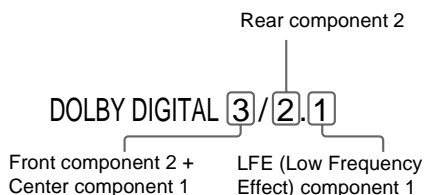
DVD

When you select “AUDIO,” the channels being played are displayed on the screen. For example, in Dolby Digital format, multiple signals ranging from monaural to 5.1 channel signals can be recorded on a DVD. Depending on the DVD, the number of the recorded channels may differ.



* “PCM,” “DTS,” “MPEG,” or “DOLBY DIGITAL” is displayed.
In the case of “DOLBY DIGITAL,” the channels in the playing track are displayed by numbers as follows:

For Dolby Digital 5.1 channel:



**The letters in the program format display mean the following sound component.

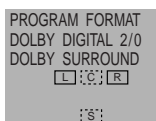
- L: Front (left)
- R: Front (right)
- C: Center
- LS: Rear (left)
- RS: Rear (right)
- S: Rear (monaural): The rear component of the Dolby Surround processed signal and the Dolby Digital signal
- LFE: Low Frequency Effect signal

The display examples are as follows:

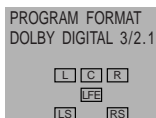
- PCM (stereo)



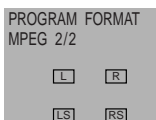
- Dolby Surround



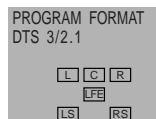
- Dolby Digital 5.1ch
“LFE” is enclosed in a solid line regardless of output of LFE signal component.



- MPEG audio



- DTS
“LFE” is enclosed in a solid line regardless of output of LFE signal component.



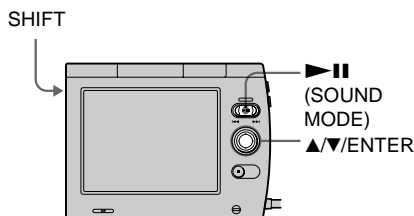
Note

If “DTS” is set to “OFF” in “CUSTOM SETUP,” and an optical digital cord is not connected, the DTS track selection option will not appear on the screen even if the disc contains DTS tracks (page 67).

Sound Mode Settings



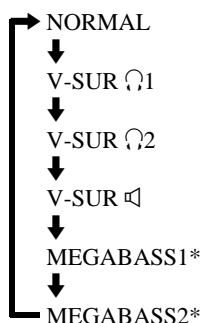
Virtual Surround lets you enjoy surround sound effects by using sound imaging to create virtual speakers from the sound of the headphones or front speakers (L: left, R: right) without using actual speakers. You can also enjoy more powerful bass sound by emphasizing the bass-boosted sound.



Selecting the sound mode directly

While pressing SHIFT, press ► (SOUND MODE) repeatedly during playback.

Each time you press the button, the sound mode changes as follows:




* These options do not appear when an audio cord is connected using the AV output adaptor.

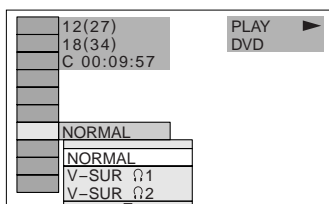
Selecting the sound mode using the Control Menu

1 While pressing SHIFT, press ▼ twice during playback.

The Control Menu is displayed.

2 Press ▲/▼ to select  (SOUND MODE), then press ENTER.

The options for “SOUND MODE” appear.



3 Press ▲/▼ to select the desired sound mode.

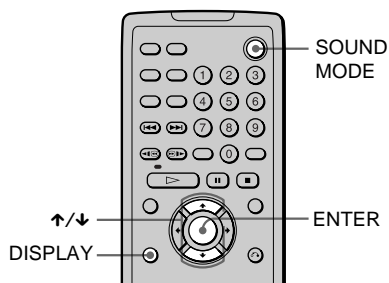
4 Press ENTER.

5 While pressing SHIFT, press ▼ (twice for a DVD) to turn off the Control Menu.


To reset the sound mode setting

In Step 3, select “NORMAL.”

Using the remote



Press SOUND MODE repeatedly to select the desired sound mode.

 You can also display the Control Menu by pressing DISPLAY. Use ▲/▼ instead of ▲/▼.

Notes

- The modes you can select depend on whether an audio cord is connected or not. If an audio cord is connected, you cannot select “MEGABASS1” or “MEGABASS2.”
- The sound mode setting is stored in the player individually depending on whether the audio cord is connected or not. The sound mode selected when the audio cord is connected or not depends on the conditions required by the respective sound modes.

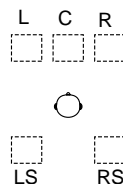
■ V-SUR (Virtual Surround) Ω1/V-SUR Ω2

Uses sound imaging to create virtual speakers from the sound of headphones (L, R) as shown in the illustrations below. The sound imaging effect makes you feel just like you are listening to the sound from speakers surrounding you.

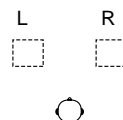
Ω1 is effective when using inner-ear headphones.

Ω2 is effective when using open-air headphones such as the MDR-F1.

- Multiple audio format, such as Dolby Digital 5.1-channel



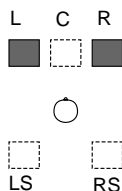
- Stereo sound, such as PCM, Dolby Digital (stereo)



■ V-SUR (Virtual Surround)

Uses sound imaging to create virtual speakers from the sound of the front speakers (L, R) without using actual speakers. The virtual speakers are reproduced for multiple audio format, such as Dolby Digital 5.1-channel, as shown in the illustration below.

This mode is effective when listening with stereo TV or active speakers.



L: Left front speaker

C: Center speaker

R: Right front speaker

LS: Left rear speaker

RS: Right rear speaker

: Virtual speakers

■ MEGABASS1/MEGABASS2


You can enjoy a powerful bass-boosted sound.

“MEGABASS2” enhances the bass sound more than “MEGABASS1.”

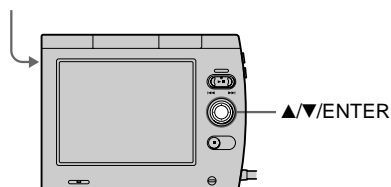
Notes

- When you select an effect, the sound cuts off for a moment.
- When the playing signal does not contain a signal for the rear speakers (page 42), the surround effects may be difficult to hear.
- Depending on the headphones, the surround effect may be difficult to hear.
- When you select one of the virtual surround items in sound mode, turn off the surround setting of the connected TV or amplifier (receiver).
- If the sound is distorted when “MEGABASS1” or “MEGABASS2” is selected, turn down the volume.

Changing the Angles

If various angles (multi-angles) for a scene are recorded on the DVD,  appears for about 5 seconds on the screen (page 66). This means that you can change the viewing angle. For example, while playing a scene of a train in motion, you can display the view from either the front of the train, the left window of the train, or from the right window without having the train's movement interrupted.

SHIFT



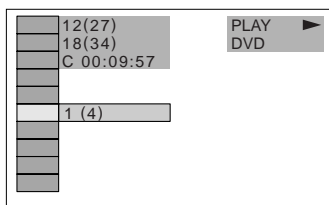
1 While pressing SHIFT, press ▼ twice during playback.

The Control Menu is displayed.

2 Press ▲/▼ to select (ANGLE).

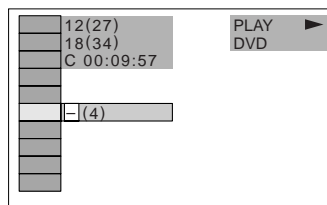
The number of the angle appears.

The number in parentheses indicates the total number of angles in the current title.



3 Press ENTER.

The number of the angle changes to “-.”

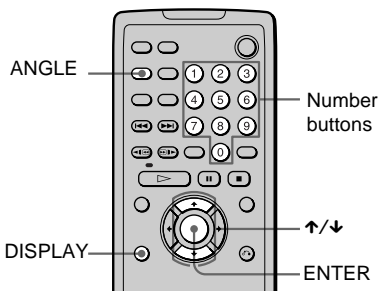


4 Select the angle number using ▲/▼, then press ENTER.


The angle changes to the selected angle.


5 While pressing SHIFT, press ▼ twice to turn off the Control Menu.

Using the remote



Press ANGLE repeatedly during playback to select the angle.

 You can also display the Control Menu by pressing DISPLAY. Use ▲/▼ instead of ▲/▼. To select the angle, you may use the number buttons.

 You can display all the angles recorded on the disc on the same screen, and start playback directly in continuous mode from the chosen angle. The angles are displayed on a screen divided into 9 sections. For details, see page 38.

Note

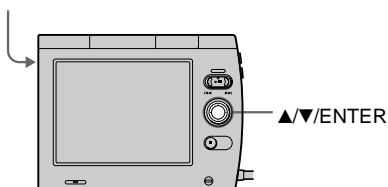
Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

Displaying the Subtitles

DVD

If subtitles are recorded on the disc, you can turn the subtitles on and off whenever you want while playing. If multilingual subtitles are recorded on the disc, you can change the subtitle language while playing, and turn it on or off whenever you want. For example, you can select the language you want to practice and turn the subtitles on for better understanding.

SHIFT

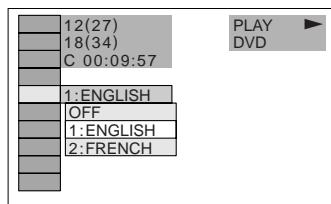


1 While pressing SHIFT, press ▼ twice during playback.

The Control Menu is displayed.

2 Press ▲/▼ to select (SUBTITLE), then press ENTER.

The options for “SUBTITLE” appear.



3 Press ▲/▼ to select the language.

Depending on the DVD, the choice of language varies.

When 4 digits are displayed, they indicate the language code. Refer to the language code list on page 77 to see which language the code represents.

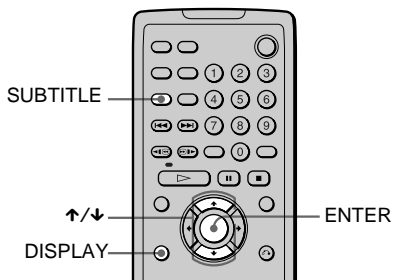
4 Press ENTER.

5 While pressing SHIFT, press ▼ twice to turn off the Control Menu.


To turn off the subtitles

Select “OFF” in Step 3.

Using the remote



Press SUBTITLE repeatedly during playback to select the subtitle.

 You can also display the Control Menu by pressing DISPLAY. Use ▲/▼ instead of ▲/▼.

Notes

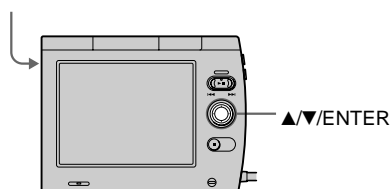
- Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on it.
- Depending on the DVD, you may be able to set the subtitle only on the disc's menu.

Using Various Additional Functions

Setting the Alarm

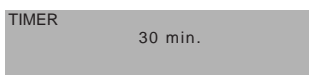
When the preset time has elapsed, you will hear beeps from the headphones.

SHIFT



1 While pressing SHIFT, press ENTER.

The “TIMER” display appears.



2 Press ▲/▼ to set the desired time (between 1 and 150 minutes).

3 Press ENTER.

When the time has elapsed, (⦿) flashes for about 10 seconds and beeps sound.

To stop alarm

Press any button on the monitor unit or player.

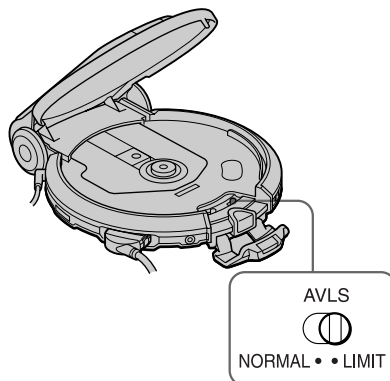
If you are using the player on the AC power adaptor, press any button on the remote.

💡 Alarm setting is reset when the rechargeable battery or the power cord is disconnected.

💡 Time remaining appears on the Status Bar (page 14).

Protecting Your Hearing (AVLS)

The AVLS (Automatic Volume Limiter System) function keeps down the maximum volume to protect your hearing.



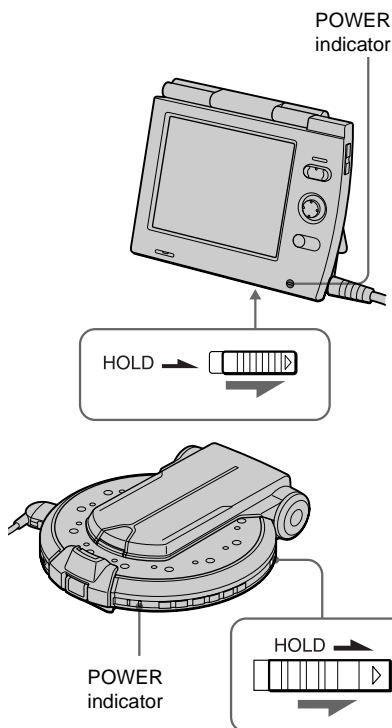
Set AVLS to “LIMIT.”

To turn off the AVLS function

Set AVLS to “NORMAL.”

Locking the Buttons (HOLD)

You can lock the controls on your player to prevent accidental button presses.



To unlock the controls

Slide HOLD in the direction that of opposite of the arrow.

Slide HOLD in the direction of the arrow.

You can use the HOLD function with both the monitor unit and player.

If HOLD on the player is activated, the buttons on the player is locked.

If HOLD on the monitor unit is activated, the buttons on the monitor unit is locked.

If you press an operation button when the HOLD function is on, the POWER indicator flashes in red.

Connecting the TV, Amplifier, etc.

You can connect the player to your TV to view the picture on the TV screen, or listen to the sound from the TV's speakers or the speakers connected to an AV amplifier (receiver).

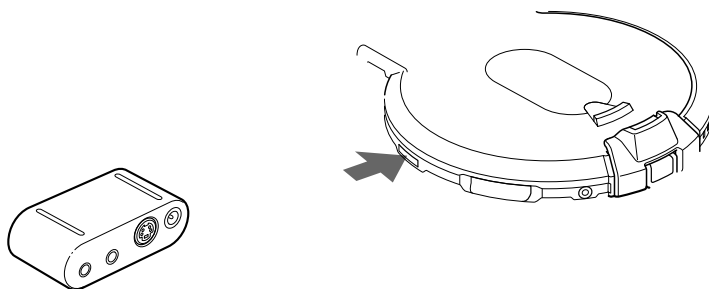
❗ Before you start, turn off the power of all the components to be connected.

Notes

- Plug cords securely to prevent unwanted noise.
- Refer to the instructions supplied with the components to be connected.

Step 1: Connecting the AV output adaptor

By attaching the supplied AV output adaptor to the player, you can connect the player to your TV or AV amplifier (receiver), etc.

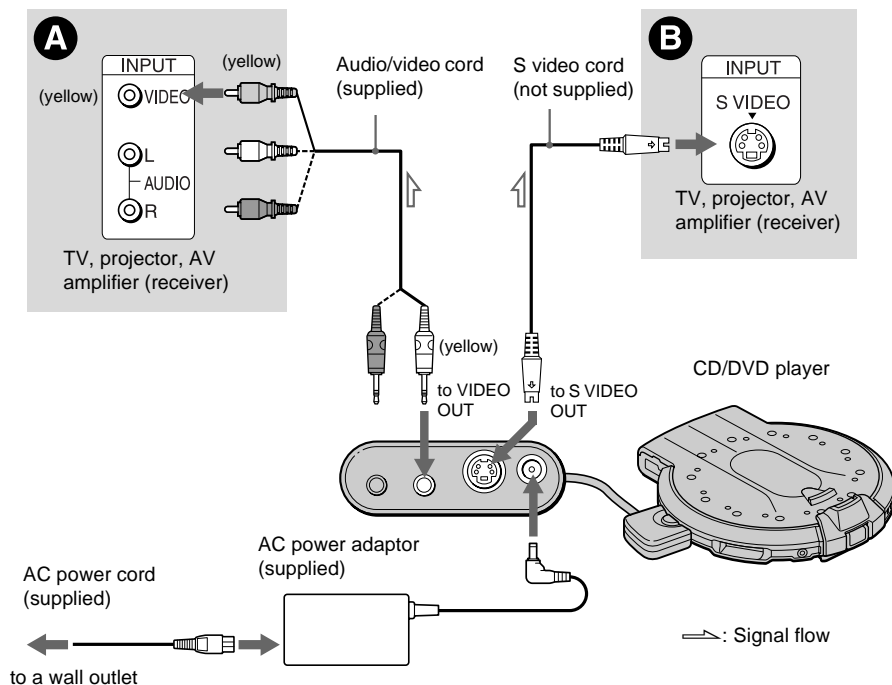


To remove the AV output adaptor

While pressing the part marked “PUSH,” pull the AV output adaptor.

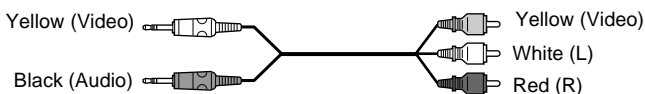
Step 2: Connecting the Video Cords

Connect this player to your TV monitor, projector, or AV amplifier (receiver) using a video cord. Select one of the patterns **A** or **B**, according to the input jack on your TV monitor, projector, or AV amplifier (receiver).



A If you are connecting to a video input jack

Connect the yellow plugs of the audio/video cord (supplied) to the yellow (video) jacks. You will enjoy standard quality images.



Use the black plug to connect to the audio input jack (page 53).

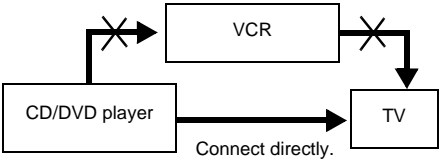
B If you are connecting to an S VIDEO input jack

Connect the S VIDEO cord (not supplied). You will enjoy high quality images.



Note

Do not connect your player to a VCR. You may not receive a clear image on the TV screen if you pass the player signals via the VCR.



Step 3: Connecting the Audio Cords

Refer to the chart below to select the connection that best suits your system. The surround effects you will enjoy depend on the connections and components you use.

Select a connection

Select one of the following connections, **A** through **D**.

Connection	Components to be connected
A (page 53)	TV (stereo)
B (page 54)	Stereo amplifier (receiver) (having L and R audio input jacks only, or having a digital input jack) <ul style="list-style-type: none">• 2 speakers (front L and R)
B (page 54)	MD deck/DAT deck
C (page 56)	AV amplifier (receiver) with a Dolby* Surround Pro Logic decoder (having L and R audio input jacks only, or having a digital input jack) <ul style="list-style-type: none">• 3 speakers (front L and R, and rear (monaural))• 6 speakers (front L and R, center, rear L and R, subwoofer)
D (page 58)	AV amplifier (receiver) having a Dolby Digital, MPEG** audio, or DTS*** decoder, and a digital input jack <ul style="list-style-type: none">• 6 speakers (front L and R, center, rear L and R, subwoofer)

* Manufactured under license from Dolby Laboratories. “Dolby,” “Pro Logic,” and the double-D symbol are trademarks of Dolby Laboratories.

** Except for the USA and Canadian models

*** “DTS” is a registered trademark of Digital Theater Systems, Inc.

B Connecting to a stereo amplifier (receiver) and 2 speakers/Connecting to an MD deck or DAT deck

This connection will use your 2 front speakers connected to your stereo amplifier (receiver) for sound. If the stereo amplifier (receiver) has audio input jacks L and R only, use **B-1**. If the amplifier (receiver) has a digital input jack, you may use **B-2**. When connecting to an MD deck or a DAT deck, use **B-2**. In this case, you can also connect the player directly to the MD deck or DAT deck without using your stereo amplifier (receiver).

Recommended surround sound effects for the **B-1 connection only**

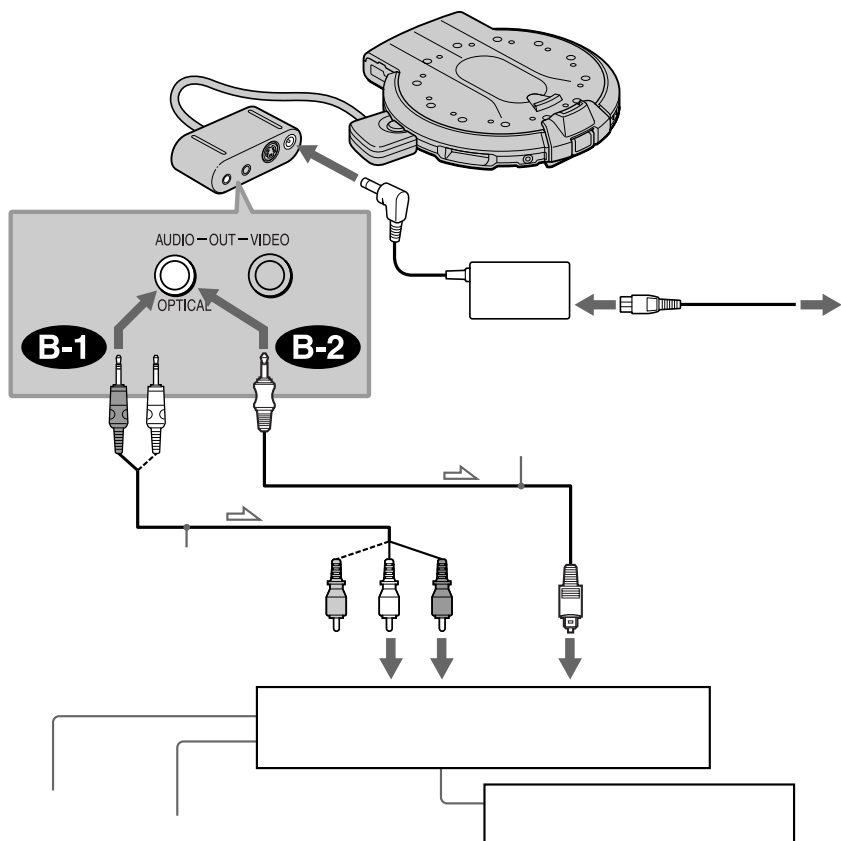
- V-SUR  (page 43)



To realize better surround sound effects, make sure that your listening position is in between your speakers.

Note

In case of the **B-2** connection, you need to set the digital output signal (page 61).



C Connecting to a Dolby Surround Pro Logic decoder amplifier (receiver) and 3 to 6 speakers


This connection will allow you to enjoy the surround effects of the Dolby Surround Pro Logic decoder on your amplifier (receiver). If you have an AV amplifier (receiver) equipped with a Dolby Digital, MPEG audio, or DTS decoder, refer to page 58.

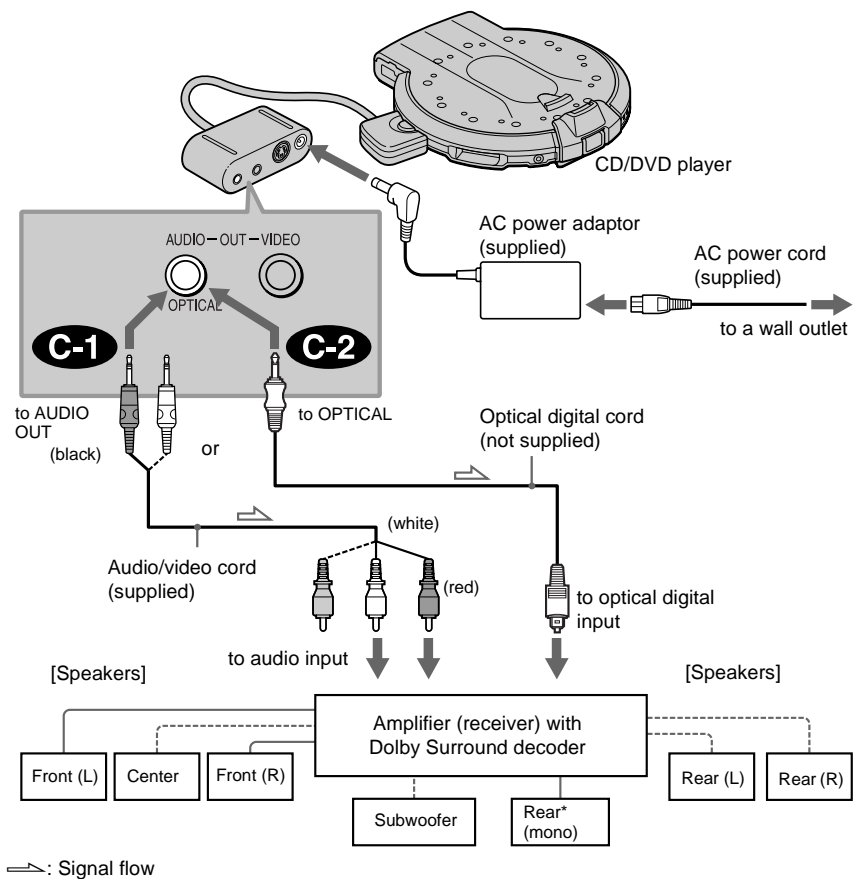
You can enjoy the Dolby Surround effects only when playing Dolby Surround audio or multichannel audio (Dolby Digital) discs.

Pro Logic uses a minimum of 3 speakers (front L and R, and rear (monaural)). The surround effects are enhanced if 6 speakers (front L and R, center, rear L and R, and subwoofer) are used. If your amplifier (receiver) has R and L audio input jacks only, use **C-1**. If your amplifier (receiver) has a digital input jack, use **C-2**.

■Recommended surround sound effects using this connection with your amplifier (receiver)

- Dolby Surround Pro Logic
(Set “SOUND MODE” to “NORMAL” in this case.)

 For correct speaker setting location, please refer to the operating instructions of the amplifier (receiver).



* When connecting 6 speakers, do not connect the monaural rear speaker.

continued →


D Connecting to an AV amplifier (receiver) with a digital input jack having a Dolby Digital, MPEG* audio, or DTS decoder, and 6 speakers

This connection will allow you to use the Dolby Digital, MPEG audio or DTS decoder function of your AV amplifier (receiver).

■ Recommended surround sound effects using this connection with your amplifier (receiver)

- Dolby Digital (5.1ch)
- DTS (5.1ch)
- MPEG audio (5.1ch)

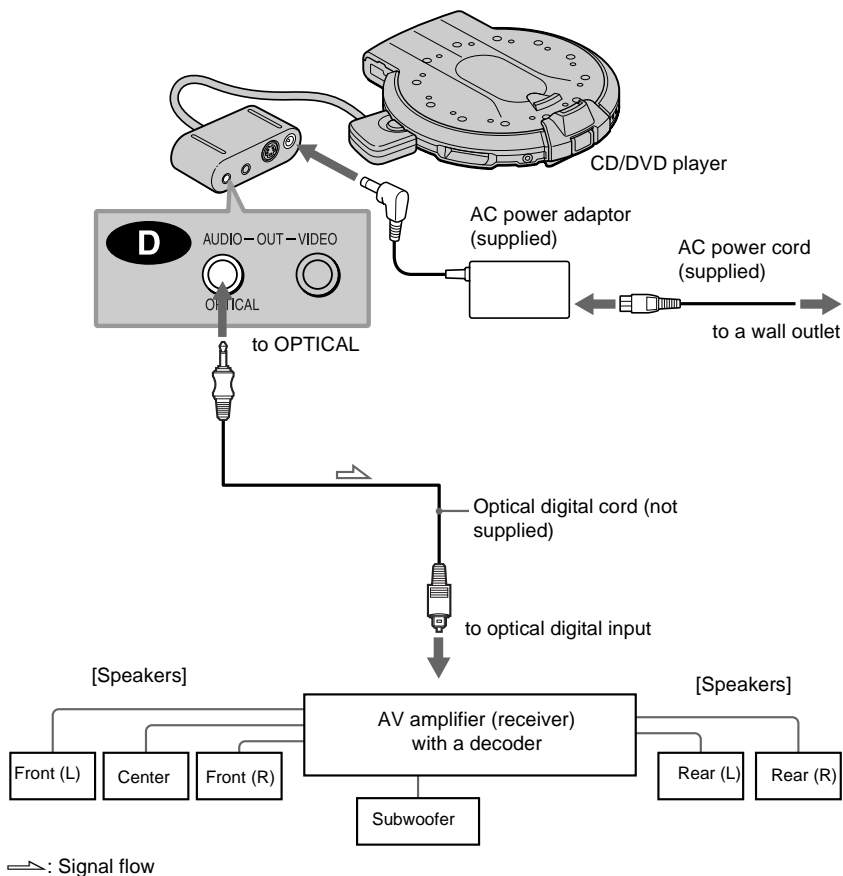
(Set “SOUND MODE” to “NORMAL” in either cases.)

 To enhance the surround sound effects, refer to the operating instructions of the amplifier (receiver) for correct speaker setting location.

Note

After you have completed the connection, be sure to set “DOLBY DIGITAL” to “DOLBY DIGITAL” (page 61). If your AV amplifier (receiver) has a DTS decoder, set “DTS” to “ON” (page 61). If your AV amplifier (receiver) has an MPEG audio decoder, set “MPEG” to “MPEG” (page 67). Otherwise, no sound or a loud noise will come from the speakers.

* Except for the USA and Canadian models



Step 4: Connecting the Power Cord

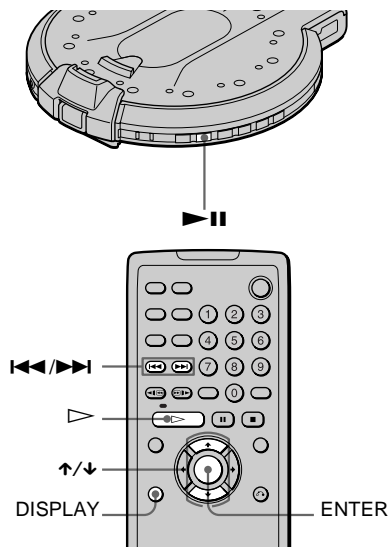
Plug the power cords of the player and connected components such as TV into an AC outlet.


Do not connect the power cord of the player to the “switched” power socket of an amplifier (receiver). Otherwise, when you turn off the power of your amplifier (receiver), the settings for the player may be lost.

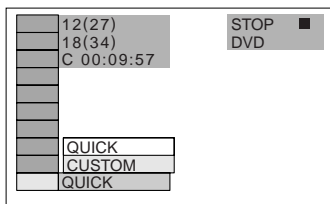
Step 5: Quick Setup

Follow the steps below to make the basic settings.

The on-screen displays differ depending upon the player model.

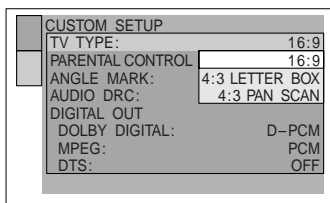


- 1 Turn on the TV.
- 2 Switch the input selector on the TV to the player.
- 3 Press **▶||** on the player or **▷** on the remote to turn on the power.
- 4 Press **DISPLAY** without inserting a disc or in stop mode.
- 5 Press **↑/↓** to select  (SETUP), then press **ENTER**.
The options for “SETUP” appear.



6 Press \uparrow/\downarrow to select "QUICK," then press ENTER.

The Setup Display used for selecting the aspect ratio of the TV appears.



7 Press \uparrow/\downarrow to select the item.

TV Type	Select	Page
A wide-screen TV or 4:3 standard TV with the wide-screen mode	16:9	65
4:3 standard TV	4:3 LETTER BOX or 4:3 PAN SCAN	65

8 Press ENTER.

Quick Setup is finished.

Step 6: Settings for the Digital Output Signal

To enjoy surround sound effects, the following items must be set as described below for the audio connection you selected in pages 54 to 58 (**B** through **D**). Refer to page 63 for details on using the Setup Display.

Audio Connection (pages 53 to 58)

A **B-1** **C-1**

No settings are needed because no optical digital cord is used.

B-2 **C-2**

Item	Select	Page
DOLBY DIGITAL	D-PCM	66
MPEG	PCM	66
DTS	OFF	66

D If the AV amplifier (receiver) has a Dolby Digital decoder

Item	Select	Page
DOLBY DIGITAL	DOLBY DIGITAL	66
DTS	OFF	66

Set "SOUND MODE" to "NORMAL" (page 43).

D If the AV amplifier (receiver) has a DTS decoder

Item	Select	Page
DTS	ON	66

Set "SOUND MODE" to "NORMAL" (page 43).

D If the AV amplifier (receiver) has an MPEG audio decoder

Item	Select	Page
MPEG	MPEG	66

If you connect the component using an optical digital cord, set “SOUND MODE” to “NORMAL” (page 43). Otherwise no sound will be heard.

Notes on playing DVDs with a DTS sound track

- If you connect the player to audio component without a DTS decoder, set “DTS” to “OFF” in “CUSTOM SETUP” (page 67). If you set it to “ON,” a loud noise may come out from the speakers, affecting your ears or causing the speakers to be damaged.
- If you play a DTS sound track with “DTS” set to “ON,” you will hear no sound from the headphones of this player and **[DTS]** appears on the Status Bar.

Watching a Video on the TV

1 Turn on your TV.

2 Switch the input selector on the TV to the player.

When using an amplifier (receiver)
Turn on the amplifier (receiver) and
select the appropriate channel.

3 Place the disc on the tray with the
playback side facing down.

4 Press **▶||**.

If you use the remote, press **▷**. The
player starts playback. Adjust the volume
on the TV or the amplifier (receiver).

To change the color system of the player to match that of your TV (Hong Kong, China and tourist models only)

Set the NTSC/PAL switch on the player to
match your TV or monitor’s color system.

Notes

- This does not change the color system of the DVD disc itself.
- If the picture of the VIDEO CD is noisy, try switching the NTSC/PAL switch.

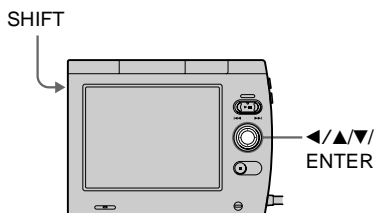
Using the Setup Display



By using the Setup Display, you can make various settings such as the language for OSD, subtitles, audio and others. For details on each Setup Display item see page 64 through 67. For an overall list of Setup Display items, see page 78.


The on-screen displays differ depending upon the player model.

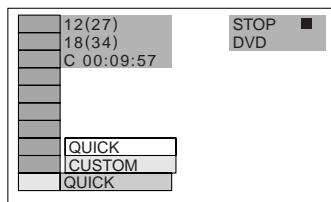
How to use the Setup Display



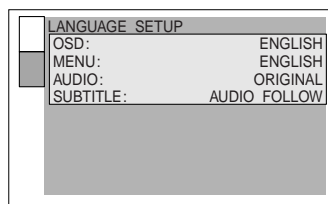
For example, to change the language for the on-screen display, operate as follows:

- 1 While pressing **SHIFT**, press **▼** twice when the player is in stop mode. The Control Menu is displayed.

- 2 Press **▲/▼** to select  (SETUP), then press **ENTER**. The options for "SETUP" appear.

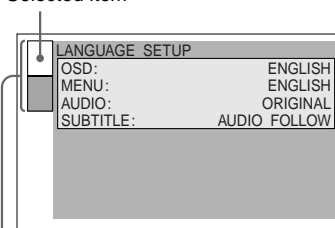


- 3 Press **▲/▼** to select "CUSTOM," then press **ENTER**.
The Setup Display appears.



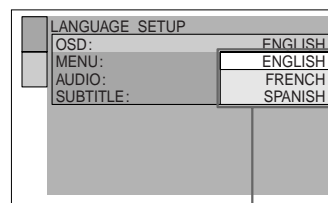
- 4 Press **▲/▼** to select the setup item from the displayed list, "LANGUAGE SETUP" in this case. Then press **ENTER**.
The selected setup item appears.

Selected item



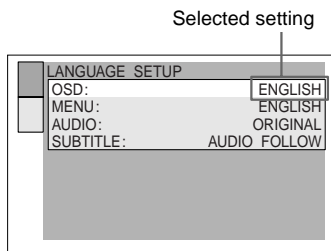
Setup items

- 5 Select an item, "OSD" in this case, using **▲/▼**, then press **ENTER**.
The options for the selected item appear.



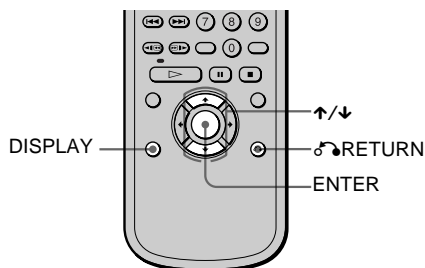
Options

- 6** Select a setting, a desired language in this case, using ▲/▼, then press ENTER. The setting is selected and setup is complete.




- 7** To set other items, press ◀ while pressing SHIFT (↵) RETURN, then do Steps 4 to 6.

Using the remote



Press DISPLAY to display the Control Menu. Use ▲/▼ instead of ▲/▼.

 If you select “QUICK” in Step 3, you will enter the Quick Setup mode (page 60). Follow from Step 5 of the Quick Setup explanation to make the settings.

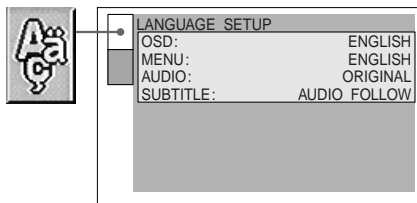
Setting the Display or Sound Track Language

(LANGUAGE SETUP)



“LANGUAGE SETUP” allows you to set various languages for the on-screen display or sound track.

Select “LANGUAGE SETUP” in the Setup Display. For details on using the display, see “Using the Setup Display” (page 63). The on-screen displays differ depending upon the player model.



■ OSD (On-Screen Display)

Switches the display language on the screen. Selects the language from the displayed list.

■ MENU (DVD only)

When you play the DVD that plural menu languages are recorded, selects the desired language for the menu.

■ AUDIO (DVD only)

Switches the language of the sound track. Selects the language from the displayed list. When you select “ORIGINAL,” the language given priority in the disc is selected.

■SUBTITLE (DVD only)

Switches the language of the subtitles recorded on the DVD.
Select the language from the displayed list.
When you select “AUDIO FOLLOW,” the language for the subtitles changes according to the language you selected for the sound track.

💡 If you select “OTHERS →” in “MENU,” “SUBTITLE,” and “AUDIO,” select and enter the language code from the list (page 77).
After you have made a selection, the language code (4 digits) is displayed the next time you select “OTHERS →.”

Note

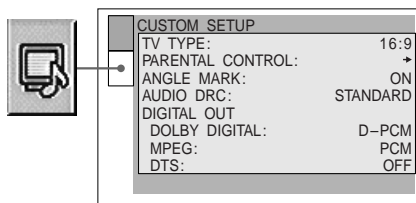
When you select a language that is not recorded on the DVD, one of the recorded languages will be automatically selected (except for the “OSD”).

Custom Settings (CUSTOM SETUP)

DVD VIDEO CD

Allows setting up Parental Control and other settings according to the connected components.

Select “CUSTOM SETUP” in the Setup Display. For details on using the display, see “Using the Setup Display” (page 63).
The on-screen displays differ depending upon the player model.



■TV TYPE

Selects the aspect ratio of the connected TV (4:3 standard or wide).
The default setting differ depending upon the player model.

16:9	Select this when you connect a wide-screen TV or a TV with a wide mode function.
4:3 LETTER BOX	Select this when you connect a 4:3 screen TV. Displays a wide picture with bands on the upper and lower portions of the screen.
4:3 PAN SCAN	Select this when you connect a 4:3 screen TV. Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.

16:9



4:3 LETTER BOX



4:3 PAN SCAN




Note

Depending on the DVD, “4:3 LETTER BOX” may be selected automatically instead of “4:3 PAN SCAN” or vice versa.

■PARENTAL CONTROL → (DVD only)

Sets a password and playback limitation level for DVDs with playback limitation for children. For details, see “Limiting playback by children (Parental Control)” (page 67).

■ANGLE MARK (DVD only)

 appears for about 5 seconds when you can change the angle.

ON	Displays the angle mark.
OFF	Does not display the angle mark.

■AUDIO DRC (Dynamic Range Control) (DVD only)

Makes the sound clear when the volume is turned down when playing a DVD that has the “AUDIO DRC” function. This does not affect the following output:

- output through an optical digital cord when “DOLBY DIGITAL” is set to “DOLBY DIGITAL”
- DTS audio output

STANDARD	Normally, select this position.
TV MODE	Makes the low sounds clear even if you turn the volume down. It is especially recommended when you listen to the sound using the speakers of the TV.
WIDE RANGE	Gives you the feeling of being at a live performance. When you use high quality speakers, it is even more effective.

Setting the digital output signal

Switches the method of outputting audio signals when you connect the following component using an optical digital cord via the OPTICAL jack (AUDIO OUT jack).

- Amplifier (receiver) with digital input jack
- Amplifier (receiver) with a built-in DTS, MPEG audio, or DOLBY DIGITAL decoder
- MD or DAT deck

For connection details, see page 52.

The on-screen displays differ depending on the player model.

CUSTOM SETUP	
TV TYPE:	16:9
PARENTAL CONTROL:	→
ANGLE MARK:	ON
AUDIO DRC:	STANDARD
DIGITAL OUT	
DOLBY DIGITAL:	D-PCM
MPEG:	PCM
DTS:	OFF

■DOLBY DIGITAL

Selects the Dolby Digital signals output via the OPTICAL jack (AUDIO OUT jack).

D-PCM	Select this when the player is connected to an audio component lacking a built-in Dolby Digital decoder.
-------	--

DOLBY DIGITAL	Select this when the player is connected to an audio component with a built-in Dolby Digital decoder. If the player is connected to an audio component lacking a built-in Dolby Digital decoder, do not set this. Otherwise, when you play the Dolby Digital sound track, a loud noise (or no sound) will come out from the speakers, affecting your ears or causing the speakers to be damaged.
----------------------	--

■MPEG (Except for the USA and Canadian models)

Selects the MPEG audio signals output via the OPTICAL jack (AUDIO OUT jack).

PCM	Select this when the player is connected to an audio component lacking a built-in MPEG decoder. If you play MPEG audio sound tracks, the player outputs stereo signals via the OPTICAL jack (AUDIO OUT jack).
MPEG	Select this when the player is connected to an audio component having a built-in MPEG decoder. If the player is connected to an audio component lacking a built-in MPEG decoder, do not set this. Otherwise, when you play the MPEG audio sound track, a loud noise (or no sound) will come out from the speakers, affecting your ears or causing the speakers to be damaged.

■DTS

Selects if DTS signals are output via the OPTICAL jack (AUDIO OUT jack).

OFF	Select this when the player is connected to an audio component lacking a built-in DTS decoder. Note, however, that the DTS signals contained in a CD are output even if “OFF” is selected.
ON	Select this when the player is connected to an audio component having a built-in DTS decoder. If the player is connected to an audio component lacking a built-in DTS decoder, do not set this. Otherwise, when you play the DTS sound track, a loud noise (or no sound) will come out from the speakers, affecting your ears or causing the speakers to be damaged.

Note

When DTS is selected, no sound will be heard from the headphones.

Limiting playback by children (Parental Control)

Playback of some DVDs can be limited according to a predetermined level such as the age of the users. The “PARENTAL CONTROL” function allows you to set a playback limitation level.

A scene that is limited is not played, or it is replaced by a different scene. This function is available only with the remote.

Setting the Parental Control

- 1 Select “CUSTOM SETUP” referring to “Using the Setup Display” (page 63).

- 2 Press \uparrow/\downarrow to select "PARENTAL CONTROL \rightarrow ," then press ENTER.
 - **If you have not entered a password**
The display for registering a new password appears.
Enter a 4-digit password using the number buttons, then press ENTER.
The display for confirming the password appears.
 - **When you have already registered a password**
The display for entering the password appears.
- 3 Enter or re-enter your password using the number buttons, then press ENTER.
The display for setting the playback limitation level and changing the password appears.
- 4 Press \uparrow/\downarrow to select "STANDARD," then press ENTER.
The selection items for "STANDARD" are displayed.
- 5 Press \uparrow/\downarrow to select a geographic area as the playback limitation level, then press ENTER.
The area is selected.
When you select "OTHERS \rightarrow ," select and enter the standard code in the table on page 69 using the number buttons.
- 6 Press \uparrow/\downarrow to select "LEVEL," then press ENTER.
- 7 Select the level you want using \uparrow/\downarrow , then press ENTER.
Parental Control setting is complete.
The lower the value, the more strict the limitation.

■ **If you make a mistake**

Press \hookrightarrow RETURN to go back to the previous screen.

■ **To turn off the Control Menu**

Press DISPLAY repeatedly until the Control Menu is turned off.

■ **To turn off the Parental Control function**


Set "LEVEL" to "OFF" in Step 7.

■ **To change the password**

- 1 Follow Steps 2 and 3 of "Limiting playback by children (Parental Control)."
- 2 Select "CHANGE PASSWORD \rightarrow " using \downarrow , then press ENTER.
The display for entering the password appears.
- 3 Follow Step 3 to enter a new password.

Playing the disc for which Parental Control is set

- 1 Insert the disc and press \triangleright .
The display to enter your password appears.
- 2 Enter your 4-digit password using the number buttons, then press ENTER.
The player starts playback.

 If you forget your password, remove the disc and operate following "Setting the Parental Control." When you are asked to enter your password, enter "199703" using the number buttons, then press ENTER. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password, insert the disc in the player and press \triangleright . When the display to enter your password appears, enter your new password.

Note

When you play DVDs which do not have the Parental Control function, playback cannot be limited on this player.

Area Code

Standard	Code number	Standard	Code number
Argentina	2044	Korea	2304
Australia	2047	Malaysia	2363
Austria	2046	Mexico	2362
Belgium	2057	Netherlands	2376
Brazil	2070	New Zealand	2390
Canada	2079	Norway	2379
Chile	2090	Pakistan	2427
China	2092	Philippines	2424
Denmark	2115	Portugal	2436
Finland	2165	Russia	2489
France	2174	Singapore	2501
Germany	2109	Spain	2149
Hong Kong	2219	Sweden	2499
India	2248	Switzerland	2086
Indonesia	2238	Taiwan	2543
Italy	2254	Thailand	2528
Japan	2276	United Kingdom	2184

Additional Information

Troubleshooting

If you experience any of the following difficulties while using the player, use this troubleshooting guide to help remedy the problem before requesting repairs. Should any problem persist, consult your nearest Sony dealer.

Power

The power will not turn on.

- ➔ If you are using the player with the rechargeable battery, you cannot turn on the player using the remote. Press ►|| on the monitor unit or player.
- ➔ Check that the rechargeable battery or power cord is connected securely.
- ➔ The rechargeable battery is not charged.
- ➔ Check that the rechargeable battery is connected correctly (page 18).

The power is turned off.

- ➔ The Auto Power Off function is activated (page 22).

Picture

There is no picture, or the picture is black and white.

- ➔ The disc is not placed correctly.
- ➔ The connecting cords are not connected securely. (Reconnect the AV output adaptor or monitor unit after turning off the power.)
- ➔ The connecting cords are damaged.
- ➔ The player is not connected to the correct TV input jack (page 53).
- ➔ The video input on the TV is not set so that you can view pictures on the player.
- ➔ (Hong Kong, China and tourist models only) Depending on the TV, the picture on the screen is shown in black and white when you play a disc recorded in the NTSC color system.

Picture noise appears.

- ➔ The disc is dirty or flawed.
- ➔ If the picture output from your player goes through your VCR to get to your TV, the copy-protection signal applied to some DVD programs could affect picture quality. If you still experience problems even when you connect your player directly to your TV, please try connecting your player to your TV's S video input (page 53).
- ➔ If the color system of your player does not match with that of your TV, change the color system of the player. For details, see page 62. (You cannot change the color system of the DVD disc itself.)

Even though you set the aspect ratio in "TV TYPE" in "CUSTOM SETUP," the picture does not fill the screen.

- ➔ The aspect ratio of the disc is fixed on the DVD.

The aspect ratio of the picture appears incorrectly on the monitor unit.

- ➔ The AV output adaptor is connected when "TV TYPE" is set to "16:9."

Sound

There is no sound.

- ➔ The connecting cord is not connected securely.
- ➔ The connecting cord is damaged.
- ➔ The player is connected to the wrong input jack on the amplifier (receiver) (page 54, 56, 58).
- ➔ The amplifier (receiver) input is not selected so that you can listen to the player.
- ➔ The player is in pause mode or in Slow-motion Play mode.
- ➔ The player is in fast forward or fast reverse mode.
- ➔ No sound is heard during strobe playback or angle viewer.
- ➔ DTS or MPEG audio track is selected (page 61).
- ➔ A Virtual Surround mode is selected when the MPEG audio component is connected using the optical digital cord (page 62).

- ➔ While playing a Super VCD on which audio track 2 is not recorded, no sound will come out when you select “2:STEREO,” “2:1/L” or “2:2/R.”

The sound is noisy.

- ➔ The disc is dirty or flawed.
- ➔ The disc is not placed correctly.
- ➔ The headphones plug is dirty (page 5).

The volume is low when playing a DVD.

- ➔ The sound in DVDs tends to be recorded in lower level than that in CDs or VIDEO CDs (page 10).

Operation

The remote does not function.

- ➔ If you are using the player with the rechargeable battery, you cannot turn on the player using the remote. Press ►|| on the monitor unit or player.
- ➔ There are obstacles between the remote and the player.
- ➔ The distance between the remote and the player is too apart.
- ➔ The remote is not pointed at the remote sensor on the player.
- ➔ The remote sensor of the player is exposed to strong light.
- ➔ The batteries in the remote are weak.

The disc does not play.

- ➔ The disc is upside down, loose, etc.
- ➔ The player cannot play CD-ROMs, etc. (page 9). Depending on the disc, “C:13:00 The disc is dirty.” may appear in this case.
- ➔ The region code on the DVD does not match that of the player (page 8).
- ➔ Moisture has condensed inside the player. Remove the disc and leave the player for about half an hour (page 3).

The disc does not start playing from the beginning.

- ➔ Program Play, Shuffle Play, Repeat Play or A-B Repeat Play has been selected (page 28). While pressing SHIFT, press VOL – (CLEAR) to cancel these functions before playing a disc.
- ➔ Resume Play has been selected. While the player is stopped, press ■ while pressing SHIFT, or open and then refasten the buckle, and then start playback (page 25).

The player starts playing the disc automatically.

- ➔ The DVD features an auto playback function.

Operation is not possible.

- ➔ The HOLD function is activated (The POWER indicator flashes in red). Release the HOLD function (page 49).

The headphones volume cannot be increased.

- ➔ AVLS is activated. Release AVLS (page 48).

Playback stops automatically.

- ➔ The disc automatically displays the menu (still image).

You cannot perform some functions such as stop, Scan, Slow-motion Play, Repeat Play, Shuffle Play, or Program Play.

- ➔ Depending on the disc, you may not be able to use some of the operations above. See the operating manual that comes with the disc.

Messages do not appear on the screen in the language you want.

- ➔ In Setup Display, select the desired language for the on-screen display in “OSD” under “LANGUAGE SETUP” (page 64).

The language for the sound track cannot be changed.

- ➔ Multilingual tracks are not recorded on the DVD being played.
 - ➔ The DVD prohibits the changing of the language for the sound track.
 - ➔ The DVD allows changing the language only on the disc's menu.
-

The subtitle language cannot be changed.

- ➔ Multilingual subtitles are not recorded on the DVD being played.
 - ➔ The DVD prohibits the changing of the subtitles.
 - ➔ The DVD allows changing the language only on the disc's menu.
-

The subtitle cannot be turned off.

- ➔ The DVD prohibits turning the subtitles off.
-

The angles cannot be changed.

- ➔ Multi-angles are not recorded on the DVD being played.
 - ➔ The DVD prohibits changing of the angles.
-

The player does not operate properly.

- ➔ When static electricity, etc., causes the player to operate abnormally, disconnect the rechargeable battery or AC power adaptor, leave the player for about 30 seconds, then try operating it again.
-

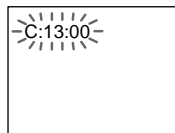
The player and monitor unit become warm.

- ➔ The player and monitor unit will become warm if they are used for a long time. This is not a malfunction.
-

Self-diagnosis Function

(When letters/numbers appear in the display)

When the self-diagnosis function is activated to prevent the player from malfunctioning, a five-character service number (e.g., C 13 00) with a combination of a letter and digits appears on the screen. In this case, check the following table.



First three characters of the service number	Cause and/or corrective action
C 13	The disc is dirty. <ul style="list-style-type: none">➔ Clean the disc with a soft cloth (page 10).➔ The player cannot play the disc, etc. (page 9).

Glossary

Chapter (page 14)

Sections of a picture or a music feature that are smaller than titles. A title is composed of several chapters. Depending on the disc, no chapters may be recorded.

Dolby Digital (page 41, 52, 66)

Digital audio compression technology developed by Dolby Laboratories. This technology conforms to sound ranging from monaural to 5.1-channel surround. The rear channel is stereo and there is a discrete subwoofer channel in this format. Dolby Digital provides the same 5.1 discrete channels of high quality digital audio found in Dolby Digital cinema audio systems. Good channel separation is realized because all of the channel data are recorded discretely and little deterioration is realized because all channel data processing is digital.

Dolby Surround Pro Logic (page 52)

Audio signal processing technology that Dolby Laboratories developed for surround sound. When the input signal contains a surround component, the Pro Logic process outputs the front, center, and rear signals. The rear channel is monaural.

DTS (page 41, 52, 67)

Digital audio compression technology that Digital Theater Systems, Inc. developed. This technology conforms to 5.1-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio.

Good channel separation is realized because all of the channel data is recorded discretely and little deterioration is realized because all channel data processing is digital.

DVD (page 8)

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.

The data capacity of a single-layer and single-sided DVD is 4.7 GB (Giga Byte), which is 7 times that of a CD. The data capacity of a double-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD is 9.4 GB, and double-layer and double-sided DVD is 17 GB.

The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 (average) of its original size. The DVD also uses a variable rate coding technology that changes the data to be allocated according to the status of the picture. Audio information is recorded in Dolby Digital as well as in PCM, allowing you to enjoy a more real audio presence. Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

Index (CD)/Video Index (VIDEO CD) (page 14)

A number that divides a track into sections to easily locate the point you want on a VIDEO CD or CD. Depending on the disc, no index may be recorded.

MPEG audio (page 41, 52, 67)


International standard coding system used to compress audio digital signals authorized by ISO/IEC. MPEG 1 conforms to up to 2-channel stereo. MPEG 2, used on DVDs, conforms to up to 7.1-channel surround.

Parental Control (page 67)

A function of the DVD used to limit playback of the disc according to the age of the user and the limitation level in each country. The limitation varies from disc to disc; when it is activated, or playback is completely

prohibited, violent scenes are skipped or replaced with other scenes, etc.

Region Code (page 8)

This system is used to protect copyrights. A region number is allocated on each DVD player or DVD disc according to the sales region. Each region code is shown on the player as well as on the disc packaging. The player can play the discs that match its region code. The player can also play discs with the  mark. Even when the region code is not shown on the DVD, the region limit may still be activated.

Scene (page 14)

On a VIDEO CD with PBC (playback control) functions, the menu screens, moving pictures and still pictures are divided into sections called “scenes.”

Title (page 14)

The longest section of a picture or music feature on a DVD, movie, etc., in video software, or the entire album in audio software.

Track (page 14)

Sections of a picture or a music feature on a VIDEO CD or CD (the length of a song).

Specifications

System

Laser	Semiconductor laser
Laser diode properties	Material: AlGaAs (CD)/AlGaInP (DVD) Wavelength: 780 nm (CD)/650 nm (DVD) Emission duration: Continuous Laser output: less than 1000 μ W (This output is the value measured at the distance of about 200 mm from the objective lens surface on the optical pickup block with 7 mm aperture.)
Signal format system (monitor unit)	PAL/NTSC
Signal format system (AV output adaptor)	VIDEO CD: USA and Canadian models: NTSC European models: PAL Hong Kong, China and tourist models: PAL, NTSC DVD: Disc's color system

Audio characteristics (output signal from AV output adaptor when “SOUND MODE” is set to “NORMAL”)

Frequency response	DVD (PCM 96 kHz): 4 Hz to 44 kHz (± 1 dB)* DVD (PCM 48 kHz): 4 Hz to 22 kHz (± 1 dB)* CD: 4 Hz to 20 kHz (± 1 dB)*
Signal-to-noise ratio (S/N ratio)	110 dB* (AUDIO OUT jack only)
Harmonic distortion	0.005%
Dynamic range	DVD: 103 dB* CD: 99 dB*
Wow and flutter	Less than detected value ($\pm 0.001\%$ W PEAK)
Maximum power output (at DC)	25 mW + 25 mW (16 ohms)

* The signals from AUDIO OUT jack are measured. When you play PCM sound tracks with a 96 kHz sampling frequency, the output signal from the OPTICAL jack is converted to 48 kHz sampling frequency.

General

Power requirements	DC 10 V Rechargeable battery (supplied, LIP-30, 7.4 V, 3000 mAh, Lithium ion) Dry batteries (2 for the remote)
Battery life	See page 20 for the rechargeable battery.
Power consumption	6 W
Dimensions (approx.)	150.2 \times 31.8 \times 167.7 mm (6 \times 1 5/16 \times 6 5/8 inches) (width/height/depth)
Mass (approx.)	332 g (11.7 oz) (player only), 571 g (1 lb 4 oz) (with rechargeable battery)
Operating temperature	5°C to 35°C
Operating humidity	25% to 80%

Monitor unit

LCD screen	3.5-inch TFT monitor
------------	----------------------

AV output adaptor

OPTICAL jack	Mini jack, Maximum output level -18 dBm, Load impedance Wave length 660 nm
AUDIO OUT jack	Mini jack, Maximum output level 2 Vrms (50 kilohms), Load impedance Over 10 kilohms
VIDEO OUT jack	Mini jack, Maximum output level 1.0 Vp-p, Load impedance 75 ohms, sync negative
S VIDEO OUT jack	4-pin mini DIN, Maximum output level: Luminance signal: 1.0 Vp-p, Load impedance 75 ohms, sync negative Color signal: 0.3 Vp-p (PAL), 0.286 Vp-p (NTSC), Load impedance 75 ohms terminated

AC power adaptor

Power requirements	100 to 240 V AC, 50/60 Hz
--------------------	---------------------------

Supplied accessories

See page 17.

Optional accessories

Active speakers	SRS-Z1000 SRS-Z750
Headphones	MDR-E888LP MDR-F1 MDR-DS5100
Digital cords	POC-5/10/15AB POC-5/10/15B
LCD cleaning kit	KK-LC1

Specifications and design are subject to change without notice.

Language Code List

For details, see page 41, 47, 64.

The language spellings conform to the ISO 639: 1988 (E/F) standard.

Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1183	Irish	1347	Maori	1507	Samoan
1028	Abkhazian	1186	Scots Gaelic	1349	Macedonian	1508	Shona
1032	Afrikaans	1194	Galician	1350	Malayalam	1509	Somali
1039	Amharic	1196	Guarani	1352	Mongolian	1511	Albanian
1044	Arabic	1203	Gujarati	1353	Moldavian	1512	Serbian
1045	Assamese	1209	Hausa	1356	Marathi	1513	Siswati
1051	Aymara	1217	Hindi	1357	Malay	1514	Sesotho
1052	Azerbaijani	1226	Croatian	1358	Maltese	1515	Sundanese
1053	Bashkir	1229	Hungarian	1363	Burmese	1516	Swedish
1057	Byelorussian	1233	Armenian	1365	Nauru	1517	Swahili
1059	Bulgarian	1235	Interlingua	1369	Nepali	1521	Tamil
1060	Bihari	1239	Interlingue	1376	Dutch	1525	Telugu
1061	Bislama	1245	Inupiak	1379	Norwegian	1527	Tajik
1066	Bengali; Bangla	1248	Indonesian	1393	Occitan	1528	Thai
1067	Tibetan	1253	Icelandic	1403	(Afan) Oromo	1529	Tigrinya
1070	Breton	1254	Italian	1408	Oriya	1531	Turkmen
1079	Catalan	1257	Hebrew	1417	Punjabi	1532	Tagalog
1093	Corsican	1261	Japanese	1418	Polish	1534	Setswana
1097	Czech	1269	Yiddish	1428	Pashto; Pushto	1535	Tonga
1103	Welsh	1283	Javanese	1435	Portuguese	1538	Turkish
1105	Danish	1287	Georgian	1436	Quechua	1539	Tsonga
1109	German	1297	Kazakh	1463	Rhaeto- Romance	1540	Tatar
1130	Bhutani	1298	Cambodian	1481	Kirundi	1543	Twi
1142	Greek	1300	Kannada	1482	Romanian	1557	Ukrainian
1144	English	1301	Korean	1483	Russian	1564	Urdu
1145	Esperanto	1305	Kashmiri	1489	Kinyarwanda	1572	Uzbek
1149	Spanish	1307	Kurdish	1495	Sanskrit	1581	Vietnamese
1150	Estonian	1311	Kirghiz	1498	Sindhi	1587	Volapük
1151	Basque	1313	Latin	1501	Sangho	1613	Wolof
1157	Persian	1326	Lingala	1502	Serbo- Croatian	1632	Xhosa
1165	Finnish	1327	Laothian	1503	Singhalese	1665	Yoruba
1166	Fiji	1332	Lithuanian	1505	Slovak	1684	Chinese
1171	Faroese	1334	Latvian; Lettish	1506	Slovenian	1697	Zulu
1174	French	1345	Malagasy				
1181	Frisian					1703	Not specified

List of Setup Display Items

The default settings are underlined.



LANGUAGE SETUP (page 64)

	USA and Canadian models	European models	Hong Kong, China and tourist models
OSD	<u>ENGLISH</u> FRENCH SPANISH	<u>ENGLISH</u> FRANÇAIS DEUTSCH ITALIANO ESPAÑOL	<u>ENGLISH</u> CHINESE1 CHINESE2
MENU	<u>ENGLISH</u> FRENCH SPANISH PORTUGUESE GERMAN ITALIAN DUTCH CHINESE JAPANESE DANISH SWEDISH FINNISH NORWEGIAN RUSSIAN OTHERS →	<u>ENGLISH</u> FRANÇAIS DEUTSCH ITALIANO ESPAÑOL NEDERLANDS DANSK SVENSKA SUOMI NORSK PORTUGUÊS РУССКИЙ CHINESE JAPANESE OTHERS →	<u>ENGLISH</u> CHINESE JAPANESE FRENCH GERMAN ITALIAN SPANISH DUTCH DANISH SWEDISH FINNISH NORWEGIAN PORTUGUESE RUSSIAN OTHERS →
AUDIO	<u>ORIGINAL</u> (All other selections are same as the "MENU" language.)		
SUBTITLE	<u>AUDIO FOLLOW</u> (All other selections are same as the "MENU" language.)		



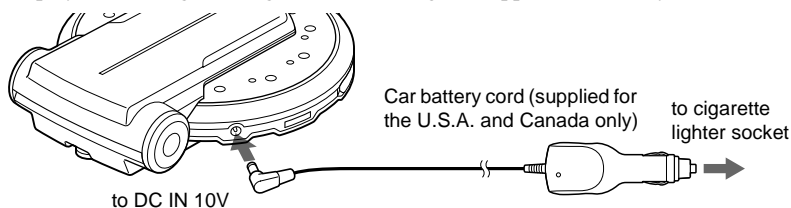
CUSTOM SETUP (page 65)

		USA and Canadian models	European, Hong Kong, China and tourist models
TV TYPE		<u>4:3 LETTER BOX</u> 4:3 PAN SCAN 16:9	<u>16:9</u> 4:3 LETTER BOX 4:3 PAN SCAN
PARENTAL CONTROL →			
ANGLE MARK		<u>ON</u> OFF	<u>ON</u> OFF
AUDIO DRC		<u>STANDARD</u> TV MODE WIDE RANGE	<u>STANDARD</u> TV MODE WIDE RANGE
DIGITAL OUT	DOLBY DIGITAL	D-PCM DOLBY DIGITAL	D-PCM DOLBY DIGITAL
	MPEG	—	PCM MPEG
	DTS	<u>OFF</u> ON	<u>OFF</u> ON

For customers in the U.S.A. and Canada

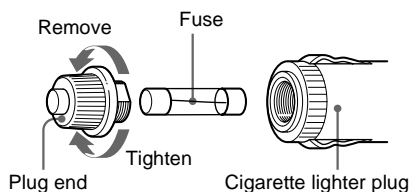
To use the player with the car battery cord

Connect the player to the cigarette lighter socket using the supplied car battery cord.



■ To replace the fuse on the car battery cord

Be sure to use a fuse with the correct amperage (2.5 A, 125 V, length 31.75 mm).



Notes

- Do not install the monitor display where viewable by the driver.
- Some states restrict the use of monitors and televisions in vehicles. Where use is permitted, the units should not be installed or operated so as to be viewable by the driver.
- Turn off the player by holding the ■ button. If you turn off the player by turning off the ignition key of the car when the rechargeable battery is not attached, the settings may be cleared.
- You can connect the player to a car cassette deck through the Ⓜ jack using a Sony CPA-9C car connecting pack (not supplied).

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